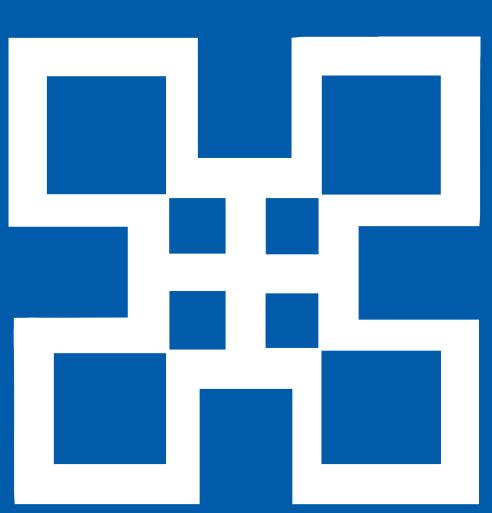
Professional Learning Community Handbook 2 for Basic Schools

Literacy across the Curriculum

HANDBOOK FOR **COORDINATORS**



Wisdom, Knowledge and Prudence









Our Promise to Youth





Professional Learning Community Handbook 2 for Basic Schools

Literacy across the Curriculum

Coordinator Version

Table of Contents

Foreword	V
Acknowledgments	vii
PLC Session 1: Relevant Pedagogies that can Support the Delivery of the Basic School Curriculum	1
PLC Session 2: The Concept of Teaching at the Right Level Using Differentiation	8
PLC Session 3: The Concept and Importance of Literacy Across the Curriculum	20
PLC Session 4: Supporting the Teaching of Literacy at the Right Level in Mathematics	33
PLC Session 5: Supporting the Teaching of Mathematics at the Right Level Using Literacy	46
PLC Session 6: Supporting the Teaching of Literacy at the Right Level in Science	58
PLC Session 7: Supporting the Teaching of Science at the Right Level Using Literacy	68
PLC Session 8: Supporting the Teaching of Literacy at the Right Level in Social Studies (Our World Our People)	78
PLC Session 9: Supporting the Teaching of Social Studies (Our World Our People) at the Right Level Using Literacy	87
PLC Session 10: Supporting the Teaching of the Creative Arts at the Right Level Using Literacy	97
PLC Session 11: Supporting the Teaching of Literacy at the Right Level in the Creative Arts	107

FOREWORD

Ghana's Standards-Based Curriculum introduced across all Basic Schools in September 2019 focuses on learning and progression for all learners and is underpinned by pedagogical considerations of differentiation and inclusion. Ghana Education Service (GES) has mandated all teachers within our Basic Schools to establish Professional Learning Communities (PLCs) and undertake weekly sessions where teachers come together and work collaboratively to improve teaching and learning in line with the new curriculum.

GES rolled out Professional Learning Community Handbook One, focused on the National Teachers' Standards (NTS), under the Communities of Excellence Programme in October 2022. Evidence from basic schools in Akuapem South, Bosome Freho and Lambussie districts indicates that the PLC Handbook is having a positive impact on teaching and learning.

As a result of this positive impact, GES collaborated with the National Teaching Council, tutors of Colleges of Education, SISOs, headteachers and teachers from selected Basic Schools within Akwapim South, Bosome Freho and Lambussie districts to develop a second PLC handbook focused on improving literacy skills across all subjects in the curriculum and teaching at the right level.

This second handbook will help teachers understand and demonstrate the use of relevant pedagogies that can support the delivery of the standard based curriculum. Teachers will be able to help students learn literacy skills while learning the content areas of subjects like mathematics, Integrated Science, Our World Our People (OWOP) etc. The Handbook will also enable teachers know and apply a variety of teaching strategies to meet the needs of all learners.

PLC sessions help teachers to build a collective understanding of how to improve outcomes for all learners in their schools through a series of practical activities such as lesson observation and peer reviews, team learning and action research. The involvement of head teachers and teachers from selected Basic Schools within the three districts in the writing of this Handbook is an intentional way to allow the teachers who use these Handbooks to see how the Handbooks are responsive to the practicalities of their classrooms.

This PLC Handbook is structured in 11 units which are applicable to all Basic Schools. It covers the following sessions:

- 1. Relevant pedagogies that can support the delivery of the basic school curriculum.
- 2. The concept of teaching at the right level using differentiation
- 3. The concept and importance of literacy across the basic school curriculum
- 4. Supporting the teaching of literacy at the right level in mathematics
- 5. Supporting the teaching of mathematics at the right level using literacy
- 6. Supporting the teaching of literacy at the right level in science
- Supporting the teaching of science at the right level using literacy
- Supporting the teaching of literacy at the right level in social studies (Our world, our people)

- Supporting the teaching of social studies at the right level (Our world, our people) using Literacy
- 10. Supporting the teaching of the creative arts at the right level using literacy
- 11. Supporting the teaching of literacy at the right level in the creative arts

The PLC Handbook is designed to improve quality and relevance of teaching and learning through experiential sharing and strategies which also incorporate Gender, Equality and Social Inclusion (GESI), Social and Emotional Learning (SEL), Information Communication Technology (ICT) and 21st Century Skills.

It is our hope and expectation that this PLC Handbook represents an important step in the transformation of education in Akuapem South, Bosome Freho and Lambussie and that it will be used effectively across all Basic Public Schools in these districts to transform learning.

Dr Eric Nkansah Director-General

Ghana Education Service

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1. Background to the PLC Sessions in this Handbook

There are eleven weekly PLC Sessions in this Handbook designed support the teaching of literacy across the curriculum. The contents of this handbook will be able to help teachers support students learn literacy skills while learning the content areas of subjects such as mathematics, science etc.

The sessions are not subject specific so subject teachers at the Junior High School level can apply the teaching and assessment principles in their teaching of any subject. The PLC sessions are designed to support:

- Professionalising teaching by supporting teachers in developing communities of practice and enhancing their professionalism.
- Improving the learning outcomes and life chances for all learners.

2. Features of the PLC Sessions

- The main resources for the weekly teacher Sessions are the teacher version of the Handbook and the PLC Coordinator version of the Handbook.
- Both versions are written to provide information to guide the eleven weekly PLC Sessions that are linked directly to the teaching of literacy.
- ➤ The PLC ccoordinator version of the Handbook have prompts for leading the PLC Session.
- ➤ The teacher version of the Handbook contains activities for teachers and guidance for what they will do during the Session.
- The times suggested for the activities in the various sections of the Sessions are a guide only and can be reviewed as appropriate.
- ➤ The extension activities may be completed outside the PLC Session individually or in groups.
- ➤ The weekly PLC Sessions are of 60-minute duration although schools may extend this duration to enable teachers to complete the extension activities in specific sessions together.

PLC Session 1: Relevant Pedagogies that can Support the Delivery of the Basic School Curriculum

•	Delivery of the basic school curriculant			
Focus: the	Guidance notes on Leading	Guidance Notes on Teacher	Time in	
bullet points	the session. What the PLC	Activity during the PLC	session	
provide the	Coordinator will have to say	Session. What teachers will		
frame for what	during each stage of the	do during each stage of		
is to be done in	session	the session		
the session. The				
writer should				
use the bullets				
to guide what				
they write for				
the PLC				
Coordinators				
and teachers to				
do and say				
during each				
session. Each				
bullet needs to				
be addressed				
1. Introduction	1.1 Start the PLC by asking	1.1 Share what you did	20mins	
	teachers to share what they	differently based on the		
	did in the classroom or	PLC sessions in Handbook		
	elsewhere based on the PLC	1, on the National Teachers		
	sessions in Handbook 1, on	Standards, which they think		
	the National Teachers	impacted learning		
	Standards, which they think	positively.		
	impacted learning positively.	positively.		
	mipaetea ieaiimig peeitire.			
	1.2 Ask teachers to discuss	1.2 Discuss and summarise		
	and summarise in a single	in a single sentence why		
	sentence why they think what	you think what your		
	their colleague did in the	colleague did in the		
	classroom or elsewhere by	classroom or elsewhere by		
	way of application of what	way of application of what		
	they learned in the sessions in	they learned in the sessions		
	PLC Handbook 1, supported	in PLC Handbook 1,		
	learning.	supported learning.		
2. Planning for	2.1 Introduce the session by	2.1 Read and explain the	10 mins	
teaching,	asking a teacher to read and	purpose of the session, the	10 1111113	
learning,	explain the purpose of the	learning outcome (LO) and		
assessment	session, the learning outcome	the learning indicators (LIs).		
activities,	(LO) and the learning	the learning mulcators (Lis).		
making links	indicators (LIs).			
with the Pre-	indicators (Lis).			
Tertiary				

(standardsbased) Curriculum and using GESI, SEL, ICT and 21st century skills

Purpose:

The main purpose of this session is to help teachers understand and demonstrate the use of relevant pedagogies that can support the delivery of the basic school curriculum. Pedagogy enables learners to get a thorough understanding of subjects in the curriculum and helps them in applying those learning experiences in their daily lives. It gives teachers insight into best practices in a classroom setting. It allows teachers to understand how different learners learn so they can tailor their lessons to suit their learning needs.

- LO: Demonstrate knowledge, understanding and application of the relevant pedagogies that can support the delivery of the basic school curriculum (NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i).
- LI 1 Mention and explain at least five pedagogies that can support the delivery of the basic school curriculum.
 LI 2 Describe how you will apply relevant pedagogies to support the delivery of the basic school curriculum.
- 2.2 Ask teachers to mention and explain at least five pedagogies that can be used to teach their subject areas

Purpose:

The main purpose of this session is to help teachers understand and demonstrate the use of relevant pedagogies that can support the delivery of the basic school curriculum. Pedagogy enables learners to get a thorough understanding of subjects in the curriculum and helps them in applying those learning experiences in their daily lives. It gives teachers insight into best practices in a classroom setting. It allows teachers to understand how different learners learn so they can tailor their lessons to suit their learning needs.

- LO: Demonstrate knowledge, understanding and application of the relevant pedagogies that can support the delivery of the basic school curriculum (NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i).
- LI 1 Mention and explain at least five pedagogies that can support the delivery of the basic school curriculum. LI 2 Describe how you will apply relevant pedagogies to support the delivery of the basic school curriculum.
- 2.2 Mention and explain at least five pedagogies that can be used to teach your subject areas (NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i).

(NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i).

E.g.

- a) Constructivist
 approach: Learners
 create their own
 understanding of
 learning through
 everyday experience
- b) Collaborative approach: Learners working together to gain greater understanding of the information they have
- c) Reflective approach: It encourages deep thinking by focusing on what teachers and learners are practicing in the classroom.
- d) Integrative approach:
 Leaners bring together
 prior knowledge and
 experiences to support
 new knowledge and
 experiences
- e) Inquiry approach: Encourages learners to engage in exploration, investigation, research and study, etc.
- 2.3 Ask teachers to describe how they will apply the pedagogies mentioned in Activity 2.2 to support the delivery of the basic school curriculum (NTS 1a, 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i). *E.g.*
 - a) Constructivist
 approach: Using
 project-based learning
 technique,
 presentations
 (individual/group),

E.g.

Constructivist
approach: learners
create their own
understanding of
learning through
everyday experience

2.3 Describe how you will apply the pedagogies you mentioned in Activity 2.2 to support the delivery of the basic school curriculum (NTS 1a, 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i) *E.g.*

Constructivist
approach: Using
project-based
learning technique,
presentations
(individual/group),

	class discussion and	class discussion and	
	quizzes	quizzes	
	b) Collaborative		
	approach: Getting		
	mixed ability groups to		
	complete tasks		
	c) Reflective approach:		
	d) Reflecting on one's		
	lessons on a regular		
	basis to improve		
	teaching and learning		
	using data gathered in		
	the reflection.		
	e) Integrative approach:		
	Using project-based		
	learning and field trips		
	f) Inquiry approach:		
	Using observations,		
	field trips,		
	experimentation, etc.		
	experimentation, etc.		
	2.4 Ask teachers to discuss	2.4 Discuss samples of your	
	samples of their lesson plans	lesson plans and indicate	
	and indicate two aspects that	two aspects that are linked	
	are linked to relevant	to relevant pedagogies that	
	pedagogies that can support	can support the delivery of	
	the delivery of the basic	the basic school curriculum	
	school curriculum. (NTS 1b,	(NTS 1b, 2c, 2d, 2e, 2f, 3f,	
	2c, 2d, 2e, 2f, 3f, 3g and 3i)	3g and 3i)	
	Refer to Appendix 1.1 for a	Refer to Appendix 1.1 for a	10mins
	sample lesson plan in Our	sample lesson plan in Our	
	World Our People for KG1 and	World Our People for KG1	
	Appendix 1.2 for sample	and Appendix 1.2 for	
	lesson plan for B7 in Social	sample lesson plan for B7 in	
	Studies	Social Studies	
	2.5 Ask teachers to indicate	2.5 Indicate how the lesson	
	how the lesson will be	will be assessed using	
	assessed using assessment as,	assessment as, assessment	
	assessment for and	for and assessment of	
	assessment of learning (NTS	learning (NTS 3k, 3i, 3m,	
	3k, 3i, 3m, and 3n).	and 3n).	
3. Modelling a	3.1 Ask a teacher to model a	3.1 Model a teaching	15 mins
teaching	teaching activity in the	activity in the sample	
activity, making	sample lesson plan for	lesson plan for feedback	
links with the	feedback from their	from your colleagues taking	
Pre-Tertiary	colleagues taking into	into consideration GESI,	
	<u> </u>	· · · · · · · · · · · · · · · · · · ·	

(St	andards-	consideration GESI, SEL, ICT	SEL, ICT and 21st century	
ba	sed)	and 21 st century skills (NTS 2c,	skills (NTS 2c, 2d, 2e, 3a, 3g	
Cu	rriculum and	2d, 2e, 3a, 3g and 3j).	and 3j).	
usi	ng GESI, SEL,			
ICT	and 21st	3.2 Ask teachers to provide	3.2 Provide feedback on	
cei	ntury skills	feedback on the modelled	the modelled activity of the	
		activity of the lesson (NTS 1a,	lesson (NTS 1a, 3i).	
		3i).		
4.	Evaluation	4.1 Ask teachers to reflect	4.1 Reflect individually and	5 mins
	and review	individually and write what	write what you have	
	of session:	they have learned in the	learned in the session and	
		session and share with the	share with the larger group	
0	Noting that	larger group (NTS 1a, 1b).	(NTS 1a, 1b).	
	teachers			
	need to	4.2 Remind teachers, where	4.2 Where appropriate,	
	identify	appropriate, to identify a	identify a colleague to	
	critical	colleague to observe them	observe your lessons in	
	friends to	while they teach their lessons	relation to PLC Session one	
	observe	in relation to PLC Session one	and provide feedback to	
	lessons and	and provide feedback to them	you (NTS 3I).	
	report at	(NTS 3I).		
	next session			
		4.3 Remind teachers to read	4.3 Read Session 2 of the	
		Session 2 of the PLC	PLC Handbook in	
		Handbook in preparation for	preparation for the next	
		the next PLC session (NTS 3a).	PLC session (NTS 3a).	
		•		

APPENDIX 1.1

Basic Daily Learning Plan KG ONE WEEK 1 Name of School: XEXES KG

Strand: All about me
Sub Strand: I am a wonderful and unique
creation
Indicators: K1.1.1.1.1; K1.1.1.3
Performance Indicator:
Learners can identify and talk about the different
parts of the body

Core Competence: Communication and collaboration, Critical thinking and problem solving skills

KEY WORDS: Body, parts

PHASE/DURATION	LEARNERS' ACTIVITIES	RESOURCES
PHASE 1: STARTER 10 MINS	Engage learners to sing songs and recite some familiar rhymes relevant to the	
(Preparing the Brain for	-	
Learning)	topic.	
Learning	My head	
	My shoulders 3x	
	My knees and toes	
	They all belong to God	
PHASE 2: MAIN	Learners pronounce the key words in the	
40MINS	lesson	
(New Learning		
Including	Learners in mixed ability groups use "pass	Ball
Assessment)	a ball" game, in which they pass a ball to	
	their friends. Learners take turns to use	
	positive language to describe and	
	appreciate themselves.	
	Learners talk about themselves focusing	
	on the uniqueness of their names, the	
	homes they come from, their physical	
	bodies, how tall or short, big or small.	
	Use the following questions to guide the	
	learners who cannot talk fluently.	
	E.g., What is your name? Age? Gender?	
	Height?	

6

What are your likes and dislikes? etc.

The teacher models the description and scaffolds the learners to do so.

Learners talk about the front/cover and the back page of a book and make connections to their own body.

Guide learners do a picture walk through the text; point to the pictures and let the learners tell stories about the pictures.

Project the pictures or show pictures on phone, laptop to the class and read the text aloud.

Help learners learn more positive words to describe themselves e.g. tall, dark, short etc.

Repeat the text read and pay attention to struggling learners to get the correct names of the parts of the body.

Make a choice to use any of the learning centres created.

Learners watch the big book and share stories on body parts

Assessment Learners identify at least 5 parts of the human body Poster/cut out picture depicting body parts, word cards of descriptive words, Cut out shapes, big books, counters, crayons

PLC Session 2: The Concept of Teaching at the Right Level Using Differentiation

Focus: the		Guidance Notes on Teacher	Time in
	Guidance notes on Leading the session. What the PLC	Activity during the PLC	session
bullet points		Session. What teachers will	Session
provide the frame for what	Coordinator will have to say during each stage of the		
is to be done in	session	do during each stage of the session	
the session. The	Session	session	
writer should			
use the bullets			
to guide what they write for			
the PLC			
Coordinators			
and teachers to			
do and say			
during each			
session. Each			
bullet needs to be addressed			
1. Introduction	1 1 Chart the DLC assissants.	1 1 Chara what was did	20mins
1. Introduction	1.1 Start the PLC session by asking teachers to share what they did differently based on PLC Session 1 of Handbook 2, on relevant pedagogies that can support the delivery of the basic school curriculum, which they think impacted learning positively.	1.1 Share what you did differently based on PLC Session 1 of Handbook 2, relevant pedagogies that can support the delivery of the basic school curriculum, which you think impacted learning positively.	201111115
	1.2 Ask teachers to discuss and summarise in a single sentence why they think what their colleague did by way application of the concept learned in Session 1 of Handbook 2, relevant pedagogies that can support the delivery of the basic school curriculum, supported learning.	1.2 Discuss and summarise in a single sentence why you think what your colleague did by way application of the concept learned in Session 1 of Handbook 2, relevant pedagogies that can support the delivery of the basic school curriculum, supported learning.	
2. Planning for	2.1 Introduce the session by	2.1 Read and explain the	10 mins
teaching,	asking one teacher to read	purpose of the session,	20
<u> </u>		l -	
_	and explain the purpose,		
learning and assessment	and explain the purpose,	learning outcome (LO) and learning indicators (LIs).	

activities, making links with the Pre-Tertiary (standardsbased) Curriculum and using GESI, SEL, ICT and 21st century skills learning outcome (LO) and learning indicators (LIs).

Purpose:

The purpose of this session is to help teachers in basic schools to enhance their skills in applying differentiation in their teaching to improve learning outcomes by teaching learners using the teaching at the right level approach.

Teaching at the Right Level: The teaching at the right level approach is an approach which enables teachers to teach learners according to their learning needs rather than their ages or grade levels. This approach empahsises that the pace at which children learn can differ from child to child and can be influenced by their environment (Pratham, 2019). In their video on teaching at the right level, Pratham (which is a non-governmental organisation in India) claims that "all over the world a growing belief is that if you open a school the children will learn (successfully). But children are not studying, for example in India 97% are enrolled in schools but 50% of children cannot read paragraphs for 2nd graders". This suggests that children do not necessarily develop at the same pace even if they are at the same age or grade therefore teachers should identify individual learning needs and address them. The organisation has used the teaching at the right level approach to support several primary school learners to

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develop reading and numeracy skills (https://www.pratham.org)

LO: Demonstrate understanding of planning for multi-level lessons using differentiation (NTS 3a, 3g).

LI 1 Examine ways of planning multi-level lessons. LI 2 Give examples of strategies for teaching and assessing multi-level lessons in literacy.

2.2 Ask teachers in groups to analyse at least two (2) ways of planning multi-level lessons (differentiation) (NTS 3g). *E.g.*

- *a) Pre-assessment:* Before planning a *lesson, it is important* to assess the prior knowledge and skills of the learners. It is *important to assess* learners' strengths, weaknesses, interests and readiness level. *Understanding what* learners already know, will help teachers to tailor their lessons to meet learner's individual needs
- b) Identify learning outcomes: Determine the learning outcomes for the lesson, and then consider how you can modify or scaffold for

develop reading and numeracy skills (https://www.pratham.org)

- LO: Demonstrate understanding of planning for multi-level lessons using differentiation (NTS 3a, 3g).
- LI 1 Examine ways of planning multi-level lessons. LI 2 Give examples of strategies for teaching and assessing multi-level lessons in literacy.
- 2.2 In groups analyse at least two (2) ways of planning multi-level lessons (differentiation) (NTS 3g).

E.g.

Pre-assessment: Before planning a lesson, it is important to assess the prior knowledge and skills of the learners. It is important to assess learners' strengths, weaknesses, interests and readiness level. **Understanding what** learners already know, will help teachers to tailor their lessons to meet learner's individual needs, etc.

- learners with different learning needs
- c) Use a variety of teaching strategies:
 Differentiated teaching involves using a variety of teaching strategies to meet the needs of all learners
- d) Flexible grouping: Teachers can group learners based on their skill level or learning style. Grouping can be done in various ways, *such as homogenous* grouping (learners with similar skills) or heterogeneous grouping (learners with different skills) to create opportunities for learners to work
- e) Technology integration: Technology can be used to provide differentiated teaching, such as adaptive learning software, digital simulations, and online resources. Technology can also provide immediate feedback, allowing learners to selfassess and adjust their learning as needed
- f) Provide options for assessment: When assessing learners'

- learning, provide
 options that allow for
 different modes of
 expression and
 demonstration of
 knowledge
- g) Provide on-going feedback: This helps learners to monitor their own learning and progress. It includes feedback on homework or classwork for learners to reflect on their own learning and set goals for improvement, etc.
- 2.3 Ask teachers to think, pair and share at least two (2) examples of teaching and assessing multi-level lessons in literacy (NTS 3k, 3l and 3m).

E.g.

- a) Reading comprehension: When teaching reading comprehension, teachers can differentiate the lesson by providing different texts at different reading levels. To assess learning, teachers can use a variety of strategies such as question and answer, summarizing the main idea and making predictions
- b) Vocabulary: To teach vocabulary, provide different levels of

2.3 Use think-pair-share to give at least two (2) assessment techniques that can be used to teach science using literacy (NTS 3k, 3l and 3m).

E.g.

Reading comprehension: When teaching reading comprehension, teachers can differentiate the lesson by providing different texts at different reading levels. To assess learning, teachers can use a variety of strategies such as question and answer, summarizing the main idea and making predictions, etc.

	T		
	words based on		
	learners' prior		
	knowledge and grade		
	level. To assess		
	learning, have		
	learners use the		
	words in a sentence,		
ļ.	create a story using		
	the words or match		
	the words with their		
ļ.	meanings		
ļ.	c) Writing: To teach		
	writing, provide		
	different writing		
	prompts or		
	assignments based		
	on learners' interest		
	and readiness levels.		
	To assess learning,		
ļ.	use rubrics to		
ļ.	evaluate different		
	writing skills such as		
	organization,		
	coherence, grammar		
	and mechanics		
	d) <i>Phonics: When</i>		
	teaching phonics,		
	differentiate the		
	lesson by providing		
	different activities or		
	exercises based on		
	learners' phonemic		
	awareness and		
	decoding skills. To		
	assess learning, have		
	learners identify or		
	spell words with		
	specific sound		
	patterns, etc.		
	Refer to Appendix 2.1 for a	Refer to Appendix 2.1 for a	10 mins
	sample lesson plan in science	sample lesson plan in	10 1111113
	for B5 (for KG-B6 teachers)	science for B5 (for KG-B6	
	and Appendix 2.2 for a	teachers) and Appendix 2.2	
	sample lesson plan in science	for a sample lesson plan in	
	for B7 (for B7-B9 teachers).	science for B7 (for B7-B9	
		teachers).	
	<u> </u>		<u> </u>

	2.5 Ask teachers to indicate	2.5 Indicate how the lesson	
	how the lesson will be	will be assessed using	
	assessed using assessment	assessment as, assessment	
	_	for and assessment of	
	as, assessment for and		
	assessment of learning	learning activities (NTS 3k,	
	activities (NTS 3k, 3l and	3l and 3m).	
	3m).		
	E.g.	E.g.	
	a) Assessment as learning:	Learners use the	
	i. Learners use the	indicators of the	
	indicators of the	lesson to assess their	
	lesson to assess	own work.	
	their own work		
	ii. Learners in groups		
	discuss the		
	functions of the		
	organelles in the		
	animal cell		
	iii. Learners reflect		
	individually, write		
	and share what		
	they have learned		
	b) Assessment for learning		
	i. learners revise		
	previous lesson		
	ii. learners identify the		
	structure of animal		
	cell		
	c) Assessment of learning		
	i. Learners write the		
	correct part to label the animal cell.		
	ii. Learners draw a		
	well labelled		
	diagram of an		
	animal cell.		
	iii. Learners develop a		
	model to represent		
	an animal cell using		
	cardboards.		4.
3. Modelling a	3.1 Ask a teacher to model a	3.1 Model a teaching	15mins
teaching	teaching activity in the	activity in the sample lesson	
activity, making	sample lesson plan for	plan for feedback from your	
links with the	feedback from their	colleagues taking into	
Pre-Tertiary	colleagues taking into	consideration GESI, SEL, ICT	
(standards-	consideration GESI, SEL, ICT	and 21 st century skills (NTS	
based)		2e, 3a and 3c).	

Curriculum and	and 21st century skills (NTS		
using GESI, SEL,	2e, 3a and 3c).		
	•	Fa	
ICT and 21 st century skills	E.g. a) Putting learners into groups to write their observations on a science experiment on physical and chemical changes b) Showing a video on physical and chemical changes and getting learners to give some examples of each type pf change c) Caring for differentiated learners d) Asking questions based on an science experiment and getting learners to	E.g. Putting learners into groups to write their observations on a science experiment on physical and chemical changes	
	answer them, etc.		
	3.2 Ask teachers to provide feedback on the modelled	3.2 Provide feedback on the modelled lesson.	
	lesson.		
4. Evaluation	4.1 Ask teachers to reflect	4.1 Reflect individually,	5 mins
and review of	individually, write and share	write and share what you	
session:	what they have learned in	have learned in the session	
	the session with the larger	with the larger group (NTS	
 Noting that 	group (NTS 1a, 1b).	1a, 1b).	
teachers	,		
need to	4.2 Remind teachers to,	4.2 Where appropriate,	
identify	where appropriate, identify	identify a colleague to	
critical	a	observe your lessons in	
friends to	colleague to observe them	relation to PLC Session 2	
observe	while they teach their lesson	and provide feedback to you	
lessons and	in relation to PLC Session 2	(NTS 3I).	
report at	and provide feedback to		
next session	them (NTS 3I).		
	4.3 Remind teachers to read Session 3 of the PLC Handbook in preparation for the next PLC session (NTS 3a).	4.3 Read Session 3 of the PLC Handbook in preparation for the next PLC session (NTS 3a).	

APPENDIX 2.1

Daily Learning Plan

Name of School: Japadu D/A Primary

Date: 12/04/2023	Strand: Diversity of matter	
Day: Wednesday	Sub-Strand: <i>Materials</i>	
Class: <i>B 5</i>		
Content Standard: <i>B5.1.2.2 Know that</i> substances can exist in different	Indicator(s): B5.1.2.2.1 Know that some changes are reversible while others cannot be reversed.	
physical state (solid, liquid, gas). Many substances can be changed from one state to another by heating or cooling	Performance Indicator: Learners can identify changes that are reversible and ones that are not reversible.	

Core Competencies: critical thinking and problem-solving, communication and collaboration, digital literacy

KEY WORDS: reversible, irreversible

PHASE/DURATION	LEARNERS ACTIVITIES	RESOURCES
PHASE 1: STARTER 10 MINS (Preparing the Brain for Learning)	 i. Learners answer questions to revise previous lesson on change of state of matter. ii. Learners listen and write learning indicators of the lesson as shared by the 	
	teacher.	
PHASE 2: MAIN 40MINS	i. Learners learn keywords using drills	
(New Learning Including Assessment)	ii. Learners in mixed ability groups undertake the following activities using the resources given to them: (Melting of the candle wax, melting the shea butter, crumpling of paper, burning of paper and burning of wood) iii. Learners in their groups write their observations and present the findings to the whole class	candle wax, shea butter, water, paper, source of heat, wood
	iv. Learners classify the activities as (1) lead to the formation of a new thing, (2) no new thing formed.	
	v. Learners through PowerPoint presentation understand that changes where no new substance (physical change) is	laptop, projector, PowerPoint slides

	formed is reversible, where new substance (chemical) is formed is irreversible. vii. Learners come out with different examples of changes that are reversible or irreversible. Reversible: boiling of water Irreversible: burning of wood	
	Assessment: Level 1 Group the following changes under reversible and irreversible change: boiling of egg, chewing of bread, melting of ice, burning of wood, fermentation.	
	Level 2 Which of the following changes are reversible and irreversible and give reasons. boiling of egg, chewing of bread, melting of ice, burning of wood, fermentation. Level 3	
	Suggest any three changes each for reversible and irreversible and give reasons.	
PHASE 3: REFLECTION 10MINS (Learner and Teacher)	Learners individually reflect, write and share what they have learned in the lesson with the class.	

APPENDIX 2.2

Basic Daily Learning Plan Basic Seven – Week 4

Name of School: Ohwimase D/A JHS

Name of School: Ohwi	mase D/A Jns		
Date: 12/04/2023	Strand: Diversity of Matter		
Day: Wednesday		Sub-Strand: Living Cells	
Class: B 7			
Content Standard: B7	7.1.2.1	Indicators: B7.1.2.1.1 Describe	the structure and
Demonstrate underst		function of living cells of an animal	
structure of organism	•	Performance Indicator:	
cells in living systems		Learners can describe the structure and function of animal cells	
Core competencies: a problem solving	communication and	l collaboration, digital literacy, c	ritical thinking and
Key words: nucleus,	membrane, vacuole	e, mitochondrion	
PHASE/DURATION	LEARNERS ACTIVI	ITIES	RESOURCES
PHASE 1:	i. Revise the previ	ous lesson with learners	
STARTER 10 MINS	through question-	-and-answer method.	
(Preparing the Brain			
for Learning)		rmance indicators and	
DUACE 2. MANN	introduce the lesson.		
PHASE 2: MAIN 40MINS	i. Learners learn k		
(New Learning	ii. Learners keenly	Picture of animal	
Including	the structure of an animal cell as seen in the cell		
Assessment)	picture.		
	Cross-Se	ction of an Animal Cell	
	Cell Membrane	Centrosome	
	Lysosome	Cytoplasm	
	6		
	Nucleus	Rough ER	
	Nucleolus Nuclear	Smooth ER	
	Membrane		
	W. W.	Ribosomes	
	Vacuole /	The state of the s	
	Mitochondrion	Golgi Body ©EnchantedLearning.com	
		ups discuss the function of	
	_	the animal cell and present to	
	the whole class.		

	Example: The nuclear membrane controls the movement of substances in and out of the nucleus. iv. Learners in groups observe blood slide on the microscope and draw the conclusion that animals are made up of cells.	
	Assessment Level 1 Write the correct part to label the animal cell Animal Cell Diagram	Microscope, blood slide
	Nacinus Hittochondrisc Cytispicsms Call Membrune	
	Level 2 Draw a well labelled diagram of an animal cell. Level 3 Develop a model to represent an animal cell	
PHASE 3: REFLECTION 10MINS (Learner and	i. Use peer discussion and effective questioning to find out from learners what they have learned during the lesson.	
Teacher)	ii. Ask learners how the lesson will benefit them in their daily lives.	
	iii. Take feedback from learners and summarize the lesson.	

PLC Session 3: The Concept and Importance of Literacy Across the Curriculum

Across the C	ACIOSS the Curriculum			
Focus: the bullet	Guidance notes on Leading	Guidance Notes on Teacher	Time	
points provide	the session. What the PLC	Activity during the PLC	in	
the frame for	Coordinator will have to say	Session. What teachers will	session	
what is to be	during each stage of the	do during each stage of the		
done in the	session	session		
session. The				
writer should use				
the bullets to				
guide what they				
write for the PLC				
Coordinators and				
teachers to do				
and say during				
each session.				
Each bullet needs				
to be addressed				
1. Introduction	1.1 Start the PLC session by asking teachers to share what they did differently in the classroom or elsewhere based on PLC Session 2, on the concept of teaching at the right level using differentiation, which they think impacted learning positively.	1.1 Share what you did differently in the classroom or elsewhere based on PLC Session 2, on the concept of teaching at the right level using differentiation, which you think impacted learning positively.	20 mins	
	1.2 Ask teachers to discuss and summarise in a single sentence why they think what their colleague did by way of application of what they learned in Session 2, on the concept of teaching at the right level using differentiation, supported learning.	1.2 Discuss and summarise in a single sentence why you think what your colleague did by way of application of what you learned in Session 2, on the concept of teaching at the right level using differentiation, supported learning.		
2. Planning for	2.1 Ask a teacher to read	2.1 Read the Purpose,	10	
teaching,	the Purpose, Learning	Learning Outcome (LO) and	mins	
learning and	Outcome (LO) and the	the Learning Indicators (LIs).		
assessment	Learning Indicators (LIs).			
activities, making				
links with the				
Pre-Tertiary				
	L	L	1	

(standardsbased) Curriculum and using GESI, SEL, ICT and 21st century skills

Purpose:

The purpose of the session is to discuss the concept and importance of literacy across the curriculum.

- LO: Demonstrate knowledge, understanding and application of the concept and importance of literacy across the curriculum. (NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i).
- LI 1 Explain the concept of literacy across the curriculum.
- LI 2 Discuss at least three benefits of literacy across the curriculum.
- 2.2 Ask teachers in pairs to explain to their partners and share with the larger group the concept of literacy across the curriculum (NTS 2d, 3i).

E.g.

a) Literacy is the ability to use and manipulate language in all of it forms - listening, speaking, reading and writing. Learning literacy skills gives learners access to some very *important modes of learning* and using those skills constructively and consistently in the context of learning improves learning. Poor literacy skills act as a barrier to learning and as a consequence, learners may seek to

Purpose:

The purpose of the session is to discuss the concept and importance of literacy across the curriculum.

- LO: Demonstrate knowledge, understanding and application of the concept and importance of literacy across the curriculum. (NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i).
- LI 1 Explain the concept of literacy across the curriculum.
- LI 2 Discuss at least three importance of literacy across the curriculum.
- 2.2 In pairs explain to your partner and share with the larger group the concept of literacy across the curriculum (NTS 2d, 3i).

E.g.

Literacy is the ability to use and manipulate language in all of it forms - listening, speaking, reading and writing. Learning literacy skills gives learners access to some very important modes of learning and using those skills constructively and consistently in the context of learning. Poor literacy skills act as a barrier to learning and as a consequence, learners may seek to avoid exercising them. It

avoid exercising them. It is clear that all teachers must share the responsibility of developing learners' literacy skills hence the need to teach literacy across the curriculum. Literacy across the curriculum means making sense of the languages, texts, and literacy practices of a learning area or discipline

is clear that all teachers must share the responsibility of developing learners' literacy skills hence the need to teach literacy across the curriculum, etc.

- b) According to Higgins (2012), "literacy across the curriculum means that students are learning literacy skills while learning the content areas like mathematics, science, etc."
- 2.3 Discuss at least three benefits of literacy across the curriculum (NTS 1b, 2c, 2d, 2e, 2f, 3f and 3g).

2.3 Ask teachers to discuss at least three benefits of literacy across the curriculum (NTS 1b, 2c, 2d, 2e, 2f, 3f and 3g). *E.g.*

- E.g.
- a) It reinforces the learning process. The more fluent learners become, the more they are able to contribute meaningfully to the learning process
- It reinforces the learning process. The more fluent learners become, the more they are able to contribute meaningfully to the learning process, etc.
- b) It enhances learners' academic success.
 Learners' academic success to a large extent depends on how proficiently they are able to make use of the four language

- skills listening, speaking, reading and writing. A learner who is proficient in all the four skills is able to go through their education with ease
- c) Good literacy skills
 help learners to
 confidently
 participate in class
 discussions. Learners
 are motivated to
 contribute in class
 discussions when
 they can speak
 fluently
- d) It enhances greater life opportunities. When learners are able to succeed in their education, the floodgates of opportunities are always open to them
- e) Literacy helps to
 equip learners to
 develop transferable
 skills (critical
 thinking,
 collaboration,
 observation and
 enquiry skill, digital
 literacy, etc) through
 communication
- f) It helps learners to interpret and compose texts across different disciplines.
 Since one aim of literacy across the curriculum is to expose learners to the appropriate registers in various disciplines, they are

			1
	placed in a better position to compose and interpret texts from these disciplines, etc. Refer to Appendix 3.1 for a	Refer to Appendix 3.1 for a	10mins
	Refer to Appendix 3.1 for a sample lesson plan in OWOP Basic 5 and Appendix 3.2 for a sample lesson plan in social studies Basic 7 2.5 Ask teachers to indicate how the lesson will be taught and assessed using appropriate assessment methods (NTS 3k, 3l, 3m and 3p). E.g. a) Assessment as learning i. learners reflect on what they have learned ii. Sharing of performance indicators with learners iii. Learners answering questions they have posed about ways they are unique and different from one another b) Assessment for learning i. A teacher verifying whether learners are able to indicate what they can do to protect their body and providing immediate feedback ii. Teacher asking learners to discuss the need to protect the uniqueness of their body	Refer to Appendix 3.1 for a sample lesson plan in OWOP Basic 5 and Appendix 3.2 for a sample lesson plan in social studies Basic 7 2.5 Indicate how the lesson will be taught and assessed using appropriate assessment methods (NTS 3k, 3l, 3m and 3p). E.g. Learners answering questions they have posed about ways they are unique and different from one another, etc.	TUMINS
L	1	1	1

	c) Assessment of learning i. Teacher asking learners what they have learned today with the view to recording and grading their responses ii. Teacher asking learners to state at least three ways we destroy the uniqueness of the body in a class test, etc.		
3. Modelling a teaching activity, making links with the Pre-Tertiary (standards-based) Curriculum and using GESI, SEL, ICT and 21st century skills	3.1 Ask teachers to identify in the sample lesson plan, activities that could promote GESI and SEL responsiveness (NTS 3e, 3f and 3g). E.g. a) Learners went on the field trip in mix gender and heterogenous groups b) Teacher could use mixed gender groups during the activities on key words (where possible) to encourage collaboration between males and females including SEN learners c) Teacher could provide one-on-one support to learners who struggled with the report writing d) Differentiated activities, etc.	3.1 Identify activities that could promote GESI and SEL responsiveness (NTS 3e, 3f and 3g). E.g. Learners went on the field trip in mix gender and heterogenous groups	15 mins
	3.2 Ask teachers to recommend other assessment strategies that could aid in the development of literacy skills in learners who	3.2 Recommend assessment strategies in the lesson plan subjects that could aid in the development of literacy skills in learners who struggle with	

		1. 1 (2.70.4	
	struggle with reading and	reading and writing (NTS 1a,	
	writing (NTS 1a, 2e, 3m and	2e, 3m and 3f).	
	3f).		
	E.g.	E.g.	
	a) Peer reading	Peer reading, etc.	
	1	r cer redding, etc.	
	b) Listening		
	comprehension		
	<i>c)</i> Role-play		
	d) Debate		
	e) Dramatization		
	f) Presentation, etc.		
	j/ Tresentation <u>, etc.</u>		
	3.3 Ask teachers to show	3.3 Show how ICT can be	
	how ICT can be used in	used in assessing social	
	assessing social studies and	studies and OWOP	
	OWOP learners orally and in	learners orally and in writing	
	•	(NTS 3j).	
	writing (NTS 3j).	1	
	E.g.	E.g.	
	a) Watching	Watching	
	YouTube/Pre-	YouTube/Pre-	
	recorded videos and	recorded videos and	
	podcast on	podcast on	
	environmental issues	environmental issues,	
	b) Giving learners	etc.	
	_	etc.	
	assignments to be		
	presented in		
	PowerPoint		
	c) Giving learners		
	projects to search		
	online for		
	information		
	d) Using Google forms		
	to quiz learners, etc.		
	3.4 Ask a teacher to model	3.4 Ask a teacher to model a	
	a teaching activity based on	teaching activity based on	
	1	· · · · · · · · · · · · · · · · · · ·	
	the sample lesson plan that	the sample lesson plan that	
	can support learners who	can support learners who	
	struggle with reading and	struggle with reading and	
	writing (Level 1) for	writing (Level 1) for feedback	
	feedback from their	from their colleagues (NTS	
	colleagues (NTS 1a, 2c).	1a, 2c).	
4. Evaluation and	4.1 Ask teachers in groups	4.1 Reflect, write and share	5 mins
review of	to reflect, write and share	what you have learned with	
session:	what they have learned with	the larger group with regard	
300000111	the larger group with regard	to the concept and benefits	
		to the concept and benefits	
	to the concept and benefits		

✓	Noting that	of literacy across the	of literacy across the	
	teachers	curriculum (NTS 1a, 1b).	curriculum (NTS 1a, 1b).	
	need to			
	identify	4.2 Remind teachers to,	4.2 Where possible, identify	
	critical	where possible, identify a	a critical friend to observe	
	friends to	critical friend to observe	your lesson in relation to PLC	
	observe	their lesson in relation to	Session 3 and provide	
	lessons and	PLC Session 3 and provide	written feedback at the next	
	report at	written feedback at the next	PLC session (NTS 3n, 3o).	
	next session	PLC session (NTS 3n, 3o).		
		4.3 Remind teachers to read	4.3 Read PLC Session 4 in	
		PLC Session 4 in preparation	preparation for the next	
		for the next week's session	week's session (NTS 3a).	
		(NTS 3a).		

APPENDIX 3.1

A sample learning plan for teaching OWOP to learners who are struggling with reading and writing

Name of School: Ankwansu M/A Basic School

Date: 20/03/2023	Strand: All about us
Day: Tuesday	Sub-Strand: Nature of God
Class: B 4	
REFERENCE: MOE (2019) OWOP Curriculum for Basic 4-6, p. 2	
Content Standard: B4.1.1.1 Demonstrate understanding of the	Indicator(s): B4.1.1.1.1 Explain how special each individual is
nature of God as the creator of human beings	Performance Indicator: Learners can explain how special each individual is

Core Competencies: communication and collaboration, creativity and innovation, critical thinking and problem solving

KEY WORDS: characteristics, uniqueness, qualities, rational, complexion

PHASE/DURATION	LEARNERS ACTIVITIES	RESOURCES
PHASE 1:	Learners sing a familiar song "head,	
STARTER 10 MINS	shoulders, knees and toes" or "God made	
(Preparing the Brain	me, I am wonderfully made"	
for Learning)		
	Introduce the lesson by sharing the	
	performance indicator with learners	
PHASE 2: MAIN	In pairs/groups guide learners to go through	
40MINS	the key words on the board emphasizing	
(New Learning	pronunciation, meaning and spelling	
Including		
Assessment)	Learners write simple sentences with the key	
	words and share them with the larger class	
	Learners in groups (mix-gender) discuss how	
	each person is created as unique and	
	different from one another: some are short,	
	tall, dull, intelligent, fair in complexion, dark	
	in complexion, etc.	
	Learners demonstrate the uniqueness of	
	each individual	

	E.g., i. My name is Esi. I am black and beautiful. There is no one like me. I am special for who I am, how I look and where I live. I am proud to be a Ghanaian. I like playing football	
	Use pictures/video clip to demonstrate some ways by which the uniqueness of the body can be altered: bleaching, accident, tattooing, piercing, poor personal hygiene, drug/substance abuse etc. can alter the uniqueness	Laptop, phones, projector
	Learners discuss ways of caring for the body	
	Level 1 Ask learners to draw two people that are unique and different from each other based on their height and colour	
	Level 2 Ask learners to write at least three ways in which they are unique and different from one another	
	Level 3 Ask learners to write about themselves and show how unique and different they are from one another	
	Learners in groups (heterogeneous) discuss how they can use their God-given unique qualities: to serve God and human beings, protect and preserve the environment, live together in harmony and contribute to development	
	Assessment : Learners draw or discuss how unique and different they are from their friends	
PHASE 3: REFLECTION 10MINS (Learner and Teacher)	Use peer discussion and effective questioning to find out from learners what they have learned.	

APPENDIX 3.2

A sample lesson plan for teaching social studies to learners who are struggling with reading and writing:

Name of School: Obodan M/A Basic School

Date: 20/03/2023		Strand: Environment	
Day: Tuesday		Sub-Strand: Environmental Issues	
Class: B 7			
REFERENCE: MOE (2021) Social Studies Curriculum for Basic 7-9, pp. 2-3			
Content Standard: B7.		Indicator: B7.1.1.1.1 Examine ways of dealing with sanitation challenges in the environment	
Demonstrate skills in dealing with environmental challenges		Performance Indicator: Learners can examine ways of dealing with sanitation challenges in the environment	
•	Core Competencies: communication and thinking and problem solving, personal		d innovation, critical
KEY WORDS: Environi	ment, Issues, Indi	scriminate, Vegetation cover	
PHASE/DURATION	LEARNERS ACTIVITIES		RESOURCES
PHASE 1:	Using probing questions, review learners'		
STARTER 10 MINS	knowledge on what they already know		
(Preparing the Brain	about environm		
for Learning)		sson by sharing the	
	performance inc	dicator with learners.	

PHASE 2: MAIN 40MINS
(New Learning Including Assessment)

In pairs/groups guide learners to go through the key words on the board emphasizing on pronunciation, meaning and spelling

Learners write simple sentences with the key words and share them with the larger class

Engage learners to discuss the physical and social environments and show how each affects the other.

Physical – air, water, land, living organisms, etc.

Social – cultural, religious, political, etc.

Learners go out in groups (mix gender, heterogenous) to identify at least two environmental problems on the school compound and report their findings (orally, sketching and writing)

E.g.

- i. Indiscriminate disposal of waste
- ii. Poor drainage system
- iii. Improper disposal of solid waste
- iv. Stench from untreated sewage
- v. Indiscriminate cutting down of vegetation cover
- i. Level 1
 Ask learners to sketch what they observed during the field trip.
- ii. Level 2 Ask learners to give an oral report of what they observed during the field trip.
- iii. Level 3
 Ask learners to write a written report
 of what they observed during the field
 trip.

Show a short video (using phones, laptops, projector) on environmental problems

Guide learners to discuss the effects of poor sanitation based on the field trip and the video watched.

laptop, projector, phones

E.g. i. Outbreak of diseases ii. Flooding iii. Air and water pollution iv. Land degradation v. Soil erosion
Guide learners to discuss ways of managing sanitation problems.
 i. Providing dustbins at vantage points. ii. Recycling of solid wastes iii. Learners should be educated on the need to protect the environment iv. Desilting choked gutters v. Proper disposal of waste
Assessment: Learners sketch or discuss 2 ways of managing sanitation problems
Use peer discussion and effective questioning to find out from learners what they have learned.

PLC Session 4: Supporting the Teaching of Literacy at the	
Right Level in Mathematics	

	iii iviatiieiiiatics		
Focus: the	Guidance notes on Leading	Guidance Notes on Teacher	Time in
bullet points	the session. What the PLC	Activity during the PLC	session
provide the	Coordinator will have to say	Session. What teachers will	
frame for what	during each stage of the	do during each stage of the	
is to be done in	session.	session.	
the session. The			
writer should			
use the bullets			
to guide what			
they write for			
the PLC			
Coordinators			
and teachers to			
do and say			
during each			
session. Each			
bullet needs to			
be addressed			
1. Introduction	1.1 Start the PLC session by asking teachers to share what they did differently in the classroom or elsewhere based on PLC Session 3, on the concept and importance of literacy across the basic school curriculum, which they think impacted learning positively.	1.1 Share what you did differently in the classroom or elsewhere based on PLC Session 3, on the concept and importance of literacy across the basic school curriculum, which you think impacted learning positively.	20mins
	1.2 Ask teachers to discuss and summarise in a single sentence why they think what their colleague did by way of application of what they learned in Session 3 on the concept and importance of literacy across the basic school curriculum, supported learning.	1.2 Discuss and summarise in a single sentence why you think what your colleague did by way of application of what you learned in Session 3 on the concept and importance of literacy across the basic school curriculum, supported learning.	
+			10 mins
2. Planning for	2.1 Introduce the session by	2.1 Read the Purpose,	10 mins
2. Planning for teaching,	2.1 Introduce the session by asking a teacher to read the	2.1 Read the Purpose, Learning Outcomes (LO) and	10 mins
_	asking a teacher to read the	•	10 mins
teaching,	-	Learning Outcomes (LO) and	10 mins

making links
with the PreTertiary
(standardsbased)
Curriculum and
using GESI, SEL,
ICT and 21st
century skills

Purpose:

This session aims to equip every teacher with the required knowledge of the concept and importance of creative pedagogies to support the teaching of literacy at the right level in mathematics.

- LO: Demonstrate knowledge, understanding and application of creative pedagogies to support the teaching of literacy at the right level in mathematics (NTS 2c, 3e and 3g).
- LI 1 Explain the concept of creative pedagogies in teaching literacy at the right level in mathematics.
 LI 2 Discuss at least three creative pedagogies in teaching literacy at the right level in mathematics.
- 2.2 Ask teachers to use think-pair- share to explain the concept of creative pedagogies in teaching literacy at the right level in mathematics (NTS 2c, 3e and 3g).

E.g.

Creative pedagogy involves imaginative and innovative arrangement of curricula and teaching strategies in the classroom to develop [learners'] creativity (Dezuanni & Jetnikoff, 2011). The goal of creative pedagogy is to transform the classroom

Purpose:

This session aims to equip every teacher with the required knowledge of the concept and importance of creative pedagogies to support the teaching of literacy at the right level in mathematics.

- LO: Demonstrate knowledge, understanding and application of creative pedagogies to support the teaching of literacy at the right level in mathematics (NTS 2c, 3e and 3g).
- LI 1 Explain the concept of creative pedagogies in teaching literacy at the right level in mathematics.
 LI 2 Discuss at least three creative pedagogies in teaching literacy at the right level in mathematics.
- 2.2 Think-pair-share to explain the concept of creative pedagogies in teaching literacy at the right level in mathematics (NTS 2c, 3e and 3g).

E.g.

Creative pedagogy involves imaginative and innovative arrangement of curricula and teaching strategies in the classroom to develop [learners'] creativity (Dezuanni & Jetnikoff, 2011), etc.

into a creative teaching process that would produce creative learners and much more efficient learners than those produced by traditional schools, etc.

- 2.3 Ask teachers to use thought shower to discuss at least three creative pedagogies in teaching literacy at the right level in mathematics (NTS 2c, 3e and 3g). *E.g.*
 - a) Roleplay: In groups, learners create a market scene where selected range of goods are sold. Buyers have to know the prices, quickly calculate how much to pay in notes and coins and how much change they should receive from sellers. *In a fun way, learners* improve their speaking skills as they strengthen their skills in addition and subtraction
 - b) Games: After teaching shapes, learners in pairs play a game where one learner throws a 3-D shape to the partner. The one who catches the 3-D shape mentions the name of the shape, spells it and finally writes it on the board. This continues until all

2.3 Use thought shower to discuss at least three creative pedagogies in teaching literacy at the right level in mathematics (NTS 2c, 3e and 3g).

E.g.

Roleplay: In groups, learners create a market scene where selected range of goods are sold. Buyers have to know the prices, quickly calculate how much to pay in notes and coins and how much change they should receive from sellers. *In a fun way, learners* improve their speaking skills as they strengthen their skills in addition and subtraction, etc.

- learners take their turns. Learners unconsciously improve their speaking, spelling and writing skills as they learn mathematics
- c) Demonstration: In demonstrating addition on a number line drawn outside the classroom, learners skip count in threes on a number line as they mention the number, its name and spell it out. Learners unconsciously improve their speaking, spelling and writing skills as they learn mathematics
- d) Stories: In teaching subtraction in mathematics, the teacher presents *learners* with a story. Learners present the story in mathematical equation and solve them. E.g., Mr. Owusu Addo has six children, two of them have gained admission to the university. How many children have not gained admission?
- e) Group Activities: Learners in groups are assigned a task in algebraic expression

1	T	ı
at basic 7. For instance, 2x + 5y + 7 - 2y + 4x - 2. Learners write step by step how they would solve this expression and present it to the class orally, etc.		
Refer to Appendix 4.1 for a sample lesson plan in mathematics for B 3 (for KG – B 6 teachers) and Appendix 4.2 for a sample lesson plan in mathematics for B 7 (for B7 – B9 teachers).	Refer to Appendix 4.1 for a sample lesson plan in mathematics for B 3 (for KG – B 6 teachers) and Appendix 4.2 for a sample lesson plan in mathematics for B 7 (for B7 – B9 teachers).	10mins
2.5 Ask teachers to indicate how the lesson will be taught and assessed using assessment as, assessment for and assessment of learning activities (NTS 3k, 3l, 3m and 3p). E.g. a) Assessment as learning i. learners reflect on what they have learned ii. Sharing of performance indicators with learners b) Assessment for learning i. Revision of previous lesson ii. Learners solve sample algebraic equations that involves addition and subtraction c) Assessment of	2.5 Indicate how the lesson will be taught and assessed using assessment as, assessment for and assessment of learning activities (NTS 3k, 3l, 3m and 3p). E.g. Learners solve sample algebraic equations that involves addition and subtraction	
learning		

	T	T	
	i. Solve algebraic equations involving four variables ii. Learners translate given statements into algebraic equations and		
2.24.1.11	solve them	2414	45
3. Modelling a	3.1 Ask teachers to identify	3.1 Identify in the sample	15mins
teaching	in the sample lesson plan,	lesson plan, activities that	
activity, making	activities that could	could promote GESI and SEL	
links with the	promote GESI and SEL	responsiveness (NTS 3f).	
Pre-Tertiary	responsiveness (NTS 3f).	Ea	
(standards- based)	E.g. a) Learners went on the	E.g. Learners went on the field	
Curriculum and	field trip in mix gender	trip in mix gender and	
using GESI, SEL,	and heterogenous	heterogenous groups	
ICT and 21st	groups	necerogenous groups	
century skills	b) Teacher could use mixed		
January Grand	gender groups during the activities on key		
	words (where possible)		
	to encourage		
	collaboration between		
	males and females		
	including SEN learners		
	c) Teacher could provide		
	one-to-one support to		
	learners who struggled		
	with the report writing		
	d) Differentiated activities,		
	etc.		
	3.2 Ask teachers to	3.2 Recommend other	
	recommend other	assessment strategies that	
	assessment strategies	could aid in the development	
	that could aid in the	of literacy skills in learners	
	development of literacy	who struggle with reading	
	skills in learners who	and writing (NTS 1a, 2e, 3f	
	struggle with reading and	and 3m).	
	writing (NTS 1a, 2e, 3f and		
	3m).		
	E.g.	E.g.	
	a) Active listening	Role-play, etc.	
	b) Role-play		

- c) Debate
- d) Dramatization
- e) Presentation, etc.
- 3.3 Ask teachers to show how ICT can be used in assessing learners in mathematics orally and in writing (NTS 3j). *E.g.*
 - e) Watching YouTube/Prerecorded videos and podcast
 - f) Giving learners
 assignments to be
 presented in
 PowerPoint
 - g) Giving learners projects to search online for information
 - h) Using Google forms to quiz the learners, etc.
- 3.4 Ask a teacher to model a teaching activity in the sample lesson plan for feedback from their colleagues taking into consideration GESI, SEL, ICT and 21st century skills (NTS 1a, 2c).

- 3.3 Show how ICT can be used in assessing learners in mathematics orally and in writing (NTS 3j).
- E.g.
 Watching YouTube/Prerecorded videos and
 podcast, etc.

3.4 Model a teaching activity in the sample lesson plan for feedback from your colleagues taking into consideration GESI, SEL, ICT and 21st century skills (NTS 1a, 2c).

an	Evaluation nd review of ession:	4.1 Ask teachers to reflect individually and write what they have learned in the session and share with the larger group (NTS 1a, 1b).	4.1 Reflect individually and write what you have learned in the session and share with the larger group (NTS 1a, 1b).	5 mins
0	Noting that teachers need to identify critical friends to observe lessons and	4.2 Remind teachers to, where appropriate, identify a colleague to observe them while they teach their lesson in relation to PLC Session 4 and provide feedback to them (NTS 3I, 3n and 3o).	4.2 Where appropriate, identify a colleague to observe your lessons in relation to PLC Session 4 and provide feedback to you (NTS 3I, 3n and 3o).	
	report at next session	4.3 Remind teachers to read Session 5 of the PLC Handbook in preparation for the next PLC session (NTS 3a).	4.3 Read Session 5 of the PLC Handbook in preparation for the next PLC session (NTS 3a).	

APPENDIX 4.1

Basic Daily Lesson Notes

B 3 – Week 11

Name Of School: Obotweri M/A Basic School

	•		
Date: 20-3-2023		Strand 4: Number	
Day: Monday		Sub-Strand 1: Counting, Rep Cardinality & Ordinality	resentation,
Class: B 3		,	
Reference: MOE (2019 Curriculum for Basic 1	•		
Content Standard: B3.		Indicators: B3.1.1.1.1 Use n	umhar names and the
estimate quantities fr		counting sequence to count of up to 10,000	
		Performance Indicator:	
		Learners can estimate quant	tities up to 1000
Core Competencies: co thinking and problem		d collaboration, creativity and	d innovation, critical
KEY WORDS: quantiti	es, sequence, esti	mate, one thousand, three hu	ındred, etc.
PHASE/DURATION	LEARNERS ACTI	VITIES	RESOURCES
PHASE 1:	Play "show me d	a number game with	
STARTER 10 MINS	learners (up to 1	10) with fingers".	
		ns the number from (1	
	1	then show their fingers	
	up to show the I		
PHASE 2: MAIN	' ' '	guide learners to go through	Phones or laptops
40MINS	1	emphasizing the right	Countars
(New Learning Including	pronunciation, r	meaning and spelling.	Counters bundle and loose
Assessment)	Ask learners to s	skip count forwards and	straws base ten cut
Assessmenty		0 to 10,000 in 10s, 50s,	square, patterns
	_	1000s starting at any point.	square, patterns
	· ·	rect errors or omissions in	
	the skip counting sequence.		
		observe the learners'	
	activities and pr	ovide support where	
	necessary		
	Level 1		
		kip count forward in 10s up	
	to 500	ap count joi ward in 100 up	

	Level 2	
	Ask learners to skip count forward in 50s up	
	to 1,000	
	,	
	Level 3	
	Ask learners to skip count forward in 200s	
	and in 500s up to 5,000 and skip count	
	backward from 5,000 to 200 and 500.	
	Guide learners to count and tell the number	
	of objects in a given collection of objects by	
	selecting the most appropriate of three	
	estimates for a given collection of objects	
	and justify the choice	
	and justify the enoise	
	Guide learners in their mix-gender groups to	
	represent numbers or quantities to 1000	
	with written numerals(words).	
	Level 1	
	Ask learners to write the number names of	
	the following 10, 20, 30.	
	Level 2	
	Ask learners to write the number names of	
	the following 15,25, 45,75,80.	
	Level 3	
	Ask learners to write the number names of	
	-	
	the following 40, 234, 467, 590, 602, 1010,	
	2190, 4765, 2001, 8913	
	Ask learners to write number names for	
	given multiples of 10 to 9999 and for	
	multiples of 100 to 99990.	
	Ask learners to appreciate the pictures taken	
	with your phone on skip counting sequence	
	game	
	Assessment:	
	Ask learners to write the number of objects	
	in a small container	
DUACE 2:		
PHASE 3:	Plenary/Reflection: Recap the lesson by	
REFLECTION	asking learners to come out with what they	
10MINS	have learned from the lesson.	
(Learner and		
Teacher)		

APPENDIX 4.2

Basic Daily Lesson Notes Basic Seven – Week 11

Name of School: Pakro Roman Catholic Basic

Name of School: Pakro	Koman Camone i	Dasic	
Date: 20 -3-2023		Strand 4: Algebra	
Day: Monday		Sub-Strand 1: Algebraic Expr	ressions
Class: B 7			
Reference: MOE (2022 Curriculum for Basic 7	•		
Content Standard: B7.	.2.2.1.2 Simplify	Indicators:	
algebraic expressions	involving the	i. B7.2.2.1.2 Perform addi	tion and subtraction of
four basic operations	and substituting	algebraic expressions	•
values to evaluate alg	ebraic		
expressions		ii. Group expressions of like	e terms correctly.
		Performance Indicator:	
		Learners can perform additional definition algebraic expressions.	on and subtraction of
Core Competencies: communication an		d collaboration, creativity and	l innovation, critical
thinking and problem			
		ntify, like terms, unlike terms	Г
PHASE/DURATION	LEARNERS ACTIVITIES		RESOURCES
PHASE 1:	Project videos or pictures of market		Phones/Laptop
STARTER 10 MINS		learners to tell items	Projector
	I	t to buy from the	
		eir partner provides the	
DUACE 2 A4444	algebraic form o		
PHASE 2: MAIN		guide learners to go through	
40MINS	,	n the board emphasizing on	
(New Learning Including	pronunciation, r	meaning and spelling.	
Assessment)	Learners write s	imple sentences with the key	Pictures of market
71336337767767		e them with the larger class.	scene
		identify like terms in a given	
	algebraic expres		
	4x+3y+9x+2y		
	4x+9x+3y+2y		
		at different levels to add / ms within a given algebraic	Collection of materials, such as:
	expression.		·

Level 1

Let x = pen, y = pencil

2x + y + x

2x+x+y

3x+y

Level 2

Let x = pen, y = pencil, m = eraser

4x + 12y + 3x - 8m - y

4x+3x+12y-y-8m

7x+11y-8m

Level 3

Let x = pen, y = pencil, m = eraser, z =

notebook

20y + 14m + 7x - m - 10y + 13z - 18x

20y-10y+14m-m+7x-18x+13z

10y+13m-11x+13z

Guide learners to sum two or more algebraic expressions

E.g.

Find the sum of:

Three apples, two bananas, five apples, four

bananas

Let a=apple, b=bananas

3a +2b +5a + 4b

Three apples together with five apples, two bananas together with 4 bananas

3a+5a+2b+4b

Eight apples together with six bananas

8a+6b

Four cats plus seven dogs minus three cats plus eight goats plus one dog minus three

aoats

Let x=cat, y=dogs, z=goat

4x+7y-3x + 8z + y - 3z =

Four cats minus three cats plus seven dogs plus one dog plus eight goats minus three

aoats

= 4x-3x+7y+y+8z-3z

One cats plus eight dogs plus five goats

= x + 8y + 5z

Pens, pencils, notebooks and erasers, etc.

	·	<u></u>
	Move round to observe the learners' activities and provide support where necessary.	
	Ask learners in their mix ability and mix gender groups to create 2 everyday life situations depicting algebraic expressions and add or subtract.	
	Assessment: Solve the algebraic problems	
	Level 1 Kwame went to the bookshop to buy 5 pens and a pencil. On his way home, he gave two pens out to Adu and Esi	
	Level 2 Kwabea went to Aburi market and bought the following items: Seven fingers of plantain, five tubers of yam and three baskets of cassava. Reaching home, she gave three fingers of plantain and one basket of cassava to Owusu.	
	Level 3 On Kuma's birthday, his mother bought two crates of eggs, one crate of mineral and five loafs of bread. His mother fried one create and 7 eggs for the celebration. Write and solve the expression	
PHASE 3: REFLECTION 10MINS (Learner and Teacher)	Plenary/Reflection: Recap the lesson by asking learners to come out with what they have learned from the lesson.	

PLC Session 5: Supporting the Teaching of Mathematics at the Right Level Using Literacy

the Night Lev	vei Using Literacy		T
Focus: the bullet	Guidance notes on Leading	Guidance Notes on Teacher	Time
points provide	the session. What the PLC	Activity during the PLC	in
the frame for	Coordinator will have to say	Session. What teachers will	session
what is to be	during each stage of the	do during each stage of the	
done in the	session	session	
session. The			
writer should use			
the bullets to			
guide what they			
write for the PLC			
Coordinators and			
teachers to do			
and say during			
each session.			
Each bullet needs			
to be addressed			
1. Introduction	1.1 Start the PLC session by asking teachers to share what they did differently in the classroom or elsewhere based on PLC Session 4, on supporting the teaching of literacy at the right level in mathematics, which they think impacted learning positively.	1.1 Share what you did differently in the classroom or elsewhere based on PLC Session 4, supporting the teaching of literacy at the right level in mathematics, which you think impacted learning positively.	20 mins
	1.2 Ask teachers to discuss and summarise in a single sentence why they think what their colleague did by way of application of what they learned in Session 4, on supporting the teaching of literacy at the right level in mathematics, supported learning.	1.2 Discuss and summarise in a single sentence why you think what your colleague did by way of application of what you learned in Session 4, on supporting the teaching of literacy at the right level in mathematics, supported learning.	
2. Planning for teaching, learning and assessment activities, making links with the Pre-Tertiary	2.1 Ask a teacher to read the purpose, learning outcome (LO) and the learning indicators (LI).	2.1 Read the purpose, learning outcome (LO) and the learning indicators (LI).	10 mins

(standardsbased) Curriculum and using GESI, SEL, ICT and 21st century skills

Purpose:

The purpose of the session is to discuss how literacy can support the teaching and learning of mathematics.

- LO: Demonstrate understanding and application of ways in which literacy can support the teaching and learning of mathematics in the basic school curriculum (NTS 1b, 2c and 3a).
- LI 1 Discuss and write at least two ways of using literacy in teaching mathematics, in the basic school curriculum.
- LI 2 Discuss at least three ways in which literacy can be applied to support the teaching and learning of mathematics in the basic school curriculum.
- 2.2 Ask teachers in groups to discuss and write at least two ways of using literacy in mathematics in the basic school curriculum (NTS 1a, 2c and 3a).

E.g.

a) Identifying and
explaining orally and in
writing terms in
mathematical registers,
such as "addition",
"subtraction",
"multiplication",
"division", etc., during
problem-solving

Purpose:

The purpose of the session is to discuss how literacy can support the teaching and learning of mathematics.

- LO: Demonstrate understanding and application of ways in which literacy can support the teaching and learning of mathematics in the basic school curriculum (NTS 1b, 2c and 3a).
- LI 1 Discuss and write at least two ways of using literacy in teaching mathematics, in the basic school curriculum.
- LI 2 Discuss at least three ways in which literacy can be applied to support the teaching and learning of mathematics in the basic school curriculum.
- 2.2 In groups discuss and write at least two ways of using literacy in mathematics in the basic school curriculum (NTS 1a, 2c and 3a).

E.g.

Identifying and explaining orally and in writing terms in mathematical registers, such as "addition", "subtraction", "multiplication", "division", etc., during problem-solving, etc.

- b) Using word problems to assess mathematical concepts. For instance:
 - i. Mr. Takyi bought six pencils for GH¢ 10.00 and paid with a GH¢ 20.00 note. How much change does he aet?
 - ii. Nana Ama bought a pineapple for GH¢4.80. She paid with a GH¢ 5.00 note. How much change does she get?
- 2.3 Ask teachers to discuss at least three ways in which literacy can be applied to support the teaching and learning of mathematics in the basic school curriculum (NTS 1b, 2c).

E.g.

- a) Presenting mathematical statements in words for learners to translate into mathematical equations before solving them
- b) Learners making oral presentations
- c) Using oral assessment to review learners' progress, etc.
- 2.4 Ask teachers to analyse how literacy plays an effective role in assessment in mathematics (NTS 3k, 3l). *E.g.*
 - a) Asking questions using appropriate vocabulary for learners to answer

2.3 Discuss at least three ways in which literacy can be applied to support the teaching and learning of mathematics in the basic school curriculum (NTS 1b, 2c).

E.g.

Presenting
mathematical
statements in words for
learners to translate into
mathematical equations
before solving them, etc.

2.4 Analyse how literacy plays an effective role in assessment in mathematics (NTS 3k, 3l).

E.g.

Asking questions using appropriate vocabulary for learners to answer

	through writing and presentation b) Diagnosing learners' difficulties through oral inquiry c) Assessing learners' progress via oral and written evaluation, etc. Refer to Appendix 5.1 for a	through writing and presentation, etc. Refer to Appendix 5.1 for a	
	sample lesson plan in mathematics for B 4 (for KG – B 6 teachers) and Appendix 5.2 for a sample lesson plan in mathematics for B 7 (for B7 – B9 teachers)	sample lesson plan in mathematics for B 4 (for KG – B 6 teachers) and Appendix 5.2 for a sample lesson plan in mathematics for B 7 (for B7 – B9 teachers)	
3. Modelling a teaching activity, making links with the Pre-Tertiary (standards-based) Curriculum and using GESI, SEL, ICT and 21st century skills	3.1 Ask teachers to identify in the sample lesson plan, at least three activities that could promote GESI and SEL responsiveness (NTS 3f). E.g. a) Both male and female names have been used b) Money is shared equally between male and female children c) Teacher could use mixed gender groups during the activities on key words (where possible) to encourage collaboration between male, female including SEN learners d) Teacher could provide one-on-one support to learners who struggled with reading e) Differentiated activities: Assign different tasks to learners based on their levels, etc.	3.1 Identify at least three activities that could promote GESI and SEL responsiveness (NTS 3f). E.g. Both male and female names have been used, etc.	10 mins

3.4 Ask teachers to recommend other assessment strategies that could aid in the development of literacy skills in learners who struggle with reading (NTS 1a, 2e, 3f and 3m).

3.4 Recommend assessment strategies that could aid in the development of literacy skills in learners who acy struggle with reading (NTS 1a, 2e, 3f and 3m).

15mins

E.g.

a) Role-play

- b) Debate
- c) Dramatization
- d) Presentation
- e) Quizzes, etc.

E.g Role play, etc.

3.5 Ask teachers to show how ICT can be used in assessing learners in a mathematics class, orally and in writing (NTS 3j).

E.g.

- a) Watching YouTube/Prerecorded videos on word problems
- b) Learners display mathematical equations on their calculators in response to teacher's oral questions
- c) Using calculators to verify their results
- d) Giving learners assignments to be presented in PowerPoint, etc.

3.5 Show how ICT can be used in assessing learners in a mathematics class, orally and in writing (NTS 3j).

E.g.

Watching YouTube/Prerecorded videos on word problems, etc.

3.6 Ask a teacher to model a teaching activity based on the sample lesson plan that can support learners who struggle with reading (Level 1) for feedback from their colleagues (NTS 1a, 2c).

3.6 Model a teaching activity based on the sample lesson plan that can support learners who struggle with reading (Level 1) for feedback from your colleagues (NTS 1a, 2c).

4.	Evaluation and	4.1 Ask teachers in groups to	4.1 In groups reflect, write	5 mins
review of		reflect, write and share what	and share what you have	
session:		they have learned with	learned with regard to	
		regard to supporting the	supporting the teaching and	
✓	Noting that	teaching and learning of	learning of literacy in	
	teachers	literacy in mathematics (NTS	mathematics (NTS 1b, 3c).	
	need to	1b, 3c).		
	identify			
	critical	4.2 Remind teachers to,	4.2 Where possible, identify	
	friends to	where possible, identify a	a critical friend to observe	
	observe	critical friend to observe	your lesson in relation to PLC	
	lessons and	their lesson in relation to	Session 5 and provide	
	report at next	PLC Session 5 and provide	written feedback to you (NTS	
	session	written feedback to them	3n, 3o).	
		(NTS 3n, 3o).		
		4.3 Remind teachers to read	4.3 Read Session 6 of the PLC	
		Session 6 of the PLC	Handbook in preparation for	
		Handbook in preparation for	the next PLC session (NTS	
		the next PLC session (NTS	3a).	
		3a).		

APPENDIX 5.1

A sample lesson plan for teaching Mathematics to learners who are struggling with reading and writing

Name of School: Obosono M/A Basic School			
Date: 21/03/2023	-	Strand: Number	
Day: Tuesday Class: B 4		Sub-Strand: Number and ope	erations
REFERENCE: MOE (201	.9)		
Mathematics Curriculum for Basic 4-6,			
p. 18			
Content Standard: B4.1.2.6 Translate and solve word problems involving the		Indicator(s): B4.1.2.6.1 Solve problems involving the four l	•
four basic operations on whole numbers		Performance Indicator: Learn mathematical statements fro problem involving addition a solve using the strategies lea	om a given word nd multiplication and
Core Competencies: co	Core Competencies: communication and collaboration, creativity and innovation, critical		
thinking and problem	solving		
KEY WORDS: Characte	eristics, Unique, P	Personality	
PHASE/DURATION LEARNERS ACTIVITIES RESOURCES		RESOURCES	

PHASE/DURATION	LEARNERS ACTIVITIES	RESOURCES
PHASE 1: STARTER 10 MINS (Preparing the Brain for Learning)	Revise with learners the previous lesson on division. Call volunteer learners to the board to solve sample questions in figures on division. Introduce the lesson by sharing the performance indicator.	
PHASE 2: MAIN 40MINS (New Learning Including	In pairs/groups, guide learners to go through the projected key words in 'word problems' before they read them.	Laptop, phones, projector
Assessment)	Learners write simple sentences with the key words and share them with the larger class i. Level 1 Find, divide, together, plus, add, multiply, problem, subtract, etc. (e.g., if you add two chairs to three chairs, how many chairs do you get?)	
	ii. Level 2 difference, product, quotient, sum, etc. (How many chairs do you get if	

you add two chairs, three chairs and seven chairs together?) Level 3

iii. Translate, compare, share, product, solve, mathematical, altogether, statement, etc. (Translate the word problem "what is the product of five and twelve" into a mathematical statement)

Using words only, guide learners to translate word problems into mathematical statements, solve them and write their answers in words.

word cards, number cards

E.g.

Question:

i) John and Mary have eight oranges each. How many oranges do they have together?

So, Mary and John have sixteen oranges together (Level 1)

ii) Owasi and Fadia share twenty Ghana cedis equally. How much does each person get?

Solution:
$$20 \div 2 = 10$$

So, each person will get ten Ghana cedis (Level 2)

iii) Adoley is twelve years old. How old will she be in five years' time? Solution:

12 + 5 = 17

So, Adoley will be seventeen years old in five years' time (Level 3)

Assessment: Learners practise with more examples

	E.g. i. A man shares pocket money between his children Mansah and Kwaku equally. If Kwaku's share is one hundred Ghana cedis, find the amount the man shared. (Level 3) ii. One match box contains 50 match sticks. How many match sticks will five boxes contain?
PHASE 3:	Use peer discussion and effective
REFLECTION	questioning to find out from learners what
10MINS	they have learned.
(Learner and	
Teacher)	

APPENDIX 5.2

A sample lesson plan for teaching Mathematics to learners who are struggling with reading and writing

Name Of School: Agvementi M/A Basic School

Date: 23/03/2023	Strand: Number
Day: Thursday Class: B 7	Sub-Strand: Ratio and Proportion
REFERENCE: MOE (2021) Mathematics Curriculum for Basic 7- 9(CCP), pp. 22-23	
Content Standard: B7.1.4.1 Demonstrate understanding of the concept of ratios and its relationship	Indicator: B7.1.4.1.3: Make tables of equivalent ratios (written as common fractions) relating quantities that are proportional
to fractions and use it to solve problems that involve rates, ratios, and proportional reasoning	Performance Indicator: Learners can use ratio language to describe relationship between two quantities
Core Competencies: communication and collaboration, creativity and innovation, critical	

Core Competencies: communication and collaboration, creativity and innovation, critical thinking and problem solving

KEY WORDS: Ratio, Rate, Proportional

LEARNERS ACTIVITIES	RESOURCES
Revise the previous lesson with learners. Call volunteer learners to the board to solve sample questions. Introduce the lesson by sharing performance indicators.	
In pairs/groups guide learners to use application of proportion in solving problems in mathematics. Find the total ratio. The ratio x:y gives you $(x+y)$. For instance, 2:3 gives you $(2+3)$ Find what one part is. Thus, the part corresponding to x, y or z. Each share corresponding to x can be found by using the fraction $=\frac{x}{x+y}$. Similarly, $=\frac{y}{x+y}$ Find the total ratio. The ratio x:y:z gives you $(x+y+z)$. For instance, 2:3:4 gives you $(2+3+4)$	Table of Equivalent Ratio, etc.
	Revise the previous lesson with learners. Call volunteer learners to the board to solve sample questions. Introduce the lesson by sharing performance indicators. In pairs/groups guide learners to use application of proportion in solving problems in mathematics. Find the total ratio. The ratio x:y gives you $(x+y)$. For instance, 2:3 gives you $(2+3)$ Find what one part is. Thus, the part corresponding to x, y or z. Each share corresponding to x can be found by using the fraction = $\frac{x}{x+y}$. Similarly, = $\frac{y}{x+y}$ Find the total ratio. The ratio x:y:z gives you $(x+y+z)$. For instance, 2:3:4 gives you

Question:

A woman shares her money between her son Qwasi and daughter Fadila in the ratio 1:2 respectively. If the amount to be shared is GH (120.00). What is Fadila's share?

Solution:

- ✓ First write down their ratios; Qwasi: Fadila = 1:2
- ✓ Find their total ratio 1+2=3
- ✓ Now find their individual fractions:

Qwasi = $\frac{1}{3}$ and Fadila = $\frac{2}{3}$

- ✓ The amount to be shared = *GH*¢120.00
- ✓ Find two-third of the amount to be shared

Fadila's share = $\frac{2}{3} \times GH$ ¢120 Fadila's share = GH \$80.00

ii. Question:

Bayuo, Adoley and Jantuah shared an amount of money in the ratio of their ages. Bayuo is 36 years old, Adoley is 48years and Jantuah is 24years old. If Jantuah received GH¢24000, how much money did they share?

Solution:

✓ First write down their ratios; Bayuo: Adoley: Jantuah = 36:48:24

Names	Equivalent Ratios			
Вауио	36	18	9	3
Adoley	48	24	12	4
Jantuah	24	12	6	2

- ✓ Using Table of Equivalent Ratio, their equivalent ratio will be = 3:4:2
- ✓ Find their total ratio 3+4+2=9
- ✓ Now find what one part is: Jantuah = 24000

56

	that is 2:24000. Let a be the amount shared.
	Bayuo's share = $\frac{3}{9}a$, Adoley's share
	$=\frac{4}{9}a$ and Jantuah's share $=\frac{2}{9}a$
	Bayuo's share= $\frac{3}{9} \times a$ = 24000
	$a = \frac{9 \times 24000}{3} = GH \text{(}72000$
	Learners go ahead to find Jantuah's and Adoley's share.
	Assessment: Learners practice more examples
	E.g.
	i. A man shares his money between
	his sons Dapilah and Kwaku in the
	ratio 2:3. If Dapilah's share is 100, find the amount shared and Kwaku's
	share.
	ii. A green paint is mixed from blue
	and yellow paint in the ratio 3:5.
	How much of each colour is needed
	to make 40liters of green paint?
PHASE 3:	Use peer discussion and effective
REFLECTION	questioning to find out from learners what
10MINS	they have learned during the lesson. Take
(Learner and	feedback from learners and summarize the
Teacher)	lesson.

PLC Session 6: Supporting the Teaching of Literacy at the Right Level in Science

	California and a surface the	Cuidana Alata a Tarat	Ti
Focus: the	Guidance notes on Leading the	Guidance Notes on Teacher	Time in
bullet points	session. What the PLC	Activity during the PLC	session
provide the	Coordinator will have to say	Session. What teachers will	
frame for	during each stage of the	do during each stage of the	
what is to be	session.	session.	
done in the			
session. The			
writer			
should use			
the bullets			
to guide			
what they			
write for the			
PLC			
Coordinators			
and teachers			
to do and			
say during			
each			
session.			
Each bullet			
needs to be			
addressed			
1.	1.1 Start the PLC session by	1.1 Share what you did	20mins
Introduction	asking teachers to share what	differently in the classroom	
	they did differently in the	or elsewhere based on PLC	
	classroom or elsewhere based	Session 5, on supporting the	
	on PLC Session 5, on supporting	teaching of mathematics at	
	the teaching of mathematics at	the right level using literacy,	
	the right level using literacy,	which you think impacted	
	which they think impacted	learning positively.	
	learning positively.	rearming positively.	
	Todaming positivery.		
	1.2 Ask teachers to discuss and	1.2 Discuss and summarise in	
	summarise in a single sentence	a single sentence why you	
	why they think what their	think what your colleague did	
	colleague did by using what	by using what they learned	
	they learned on Session 5, on	on Session 5, on supporting	
	_		
	supporting the teaching of	the teaching of mathematics	
	mathematics at the right level	at the right level using	
	using literacy, supported	literacy supported learning.	
	learning.		

2. Planning for teaching, learning and assessment activities, making links with the **Pre-Tertiary** (standardsbased) Curriculum and using **GESI, SEL,** ICT and 21st century skills

2.1 Introduce the session by asking one teacher to read and explain the purpose, learning outcome (LO) and learning indicators (LIs).

Purpose:

The purpose of this session is to help teachers in basic schools to develop the various skills and abilities to teach learners to develop the appropriate language registers at the right level in science to support literacy development.

LO: Demonstrate knowledge, understanding and application in planning and teaching of literacy at the right level in science (NTS 2d, 2f and 3i).

LI 1 Give at least three (3) strategies that support the teaching of literacy at the right level in science.

LI 2 Discuss at least three (3) assessment tools that support the teaching of literacy at the right level in science.

2.2 Ask teachers in pairs to write and share at least three (3) strategies that support the teaching of literacy at the right level in science (NTS 1a, 2e). *E.g.*

- a) Drilling of keywords
- b) model reading
- c) writing of assignment
- d) reading comprehension using scientific text, etc.

2.1 Read and explain the purpose of the session, learning outcome (LO) and learning indicators (LIs).

10mins

Purpose:

The purpose of this session is to help teachers in basic schools to develop the various skills and abilities to teach learners to develop the appropriate language registers at the right level in science to support literacy development.

LO: Demonstrate knowledge, understanding and application in planning and teaching of literacy at the right level in science (NTS 2d, 2f and 3i).

LI 1 Give at least three (3) strategies that support the teaching of literacy at the right level in science.
LI 2 Discuss at least three (3) assessment tools that support the teaching of literacy at the right level in science.

2.2 In pairs, write and share at least three (3) strategies that support the teaching of literacy at the right level in science (NTS 1a, 2e). *E.g.*

Drilling of keywords, etc.

- 2.3 Ask teachers in groups to discuss at least three (3) assessment tools that support the teaching of literacy at the right level in science (NTS 3k). *E.g.*
 - a) Spelling Inventories
 (dictation): Spelling
 inventories are used to
 assess a learner's
 spelling ability and
 identify patterns of
 errors, such as
 misspelling common
 words or struggling with
 certain letter
 combinations
 - b) Running Records:
 Running records are
 used to assess a
 learner's reading level,
 fluency, and
 comprehension by
 recording the learner's
 reading behaviour as
 they read aloud from a
 text
 - c) Writing Assessments:
 Writing assessments can
 be used to evaluate a
 learner's writing ability,
 including their
 grammar, vocabulary,
 and organization, etc.

2.3 In groups, discuss at least three (3) assessment tools that support the teaching of literacy at the right level in science (NTS 3k). *E.g.*

Spelling Inventories (dictation): Spelling inventories are used to assess a learner's spelling ability and identify patterns of errors, such as misspelling common words or struggling with certain letter combinations, etc.

Refer to Appendix 6.1 for a sample lesson plan in science for B4 (for KG-B6 teachers) and Appendix 6.2 for a sample lesson plan in science for B7 (for B7-B9 teachers).

2.4 Ask teachers to indicate how the lesson will be assessed using assessment as, assessment for and assessment of learning activities (NTS 3k, 3l and 3m).

Refer to Appendix 6.1 for a sample lesson plan in science for B4 (for KG-B6 teachers) and Appendix 6.2 for a sample lesson plan in science for B7 (for B7-B9 teachers).

2.4 Indicate how the lesson will be assessed using assessment as, assessment for and assessment of learning activities (NTS 3k, 3l and 3m).

10 mins

1	Γ~	Γ.,	
	E.g.	E.g.	
	a) Assessment as learning:	Learners individually	
	i. Learners writing	reflect, write and share	
	and sharing	what they have learned,	
	learning indicators	etc.	
	of the lesson.		
	ii. Learners individually		
	reflect, write and		
	share what they		
	have learned, etc.		
	b) Assessment for learning:		
	i. Learners identify		
	animals they know		
	ii. Learners in groups		
	categorize animals		
	into domestic and		
	wild, etc.		
	c) Assessment of learning:		
	i. Learners		
	draw/mention/write		
	one each of the		
	examples of		
	domestic animals,		
	etc.		
3. Modelling	3.1 Ask a teacher to model a	3.1 Model a teaching activity	15mins
a teaching 1	teaching activity in the sample	in the sample lesson plan for	
activity,	lesson plan for feedback from	feedback from your	
making links	their colleagues taking into	colleagues taking into	
with the	consideration GESI, SEL, ICT and	consideration GESI, SEL, ICT	
Pre-Tertiary 2	21 st century skills (NTS 2e, 3a	and 21st century skills (NTS	
(standards-	and 3c).	2e, 3a and 3c).	
based)			
Curriculum	3.2 Ask teachers to provide	3.2 Provide feedback on the	
and using	feedback on the modelled	modelled lesson (NTS 1a, 1b).	
GESI, SEL,	lesson (NTS 1a, 1b).		
ICT and 21st			
century			
skills			

	I		
4.	4.1 Ask teachers to reflect	4.1 Reflect individually, write	5 mins
Evaluation	individually, write and share	and share what you have	
and review	what they have learned in the	learned in the session with	
of session:	session with the larger group	the larger group (NTS 1a, 1b).	
	(NTS 1a, 1b).		
Noting			
that	4.2 Remind teachers to, where	4.2 Where appropriate,	
teachers	appropriate, identify a	identify a colleague to	
need to	colleague to observe them	observe your lesson in	
identify	while they teach their lesson in	relation to PLC Session 6 and	
critical	relation to PLC Session 6 and	provide feedback to you (NTS	
friends	provide feedback to them (NTS	31).	
to	31).		
observe			
lessons	4.3 Remind teachers to read	4.3 Read Session 7 of the PLC	
and	Session 7 of the PLC Handbook	Handbook in preparation for	
report at	in preparation for the next PLC	the next PLC session (NTS	
next	session (NTS 3a).	3a).	
session			

Appendix 6.1

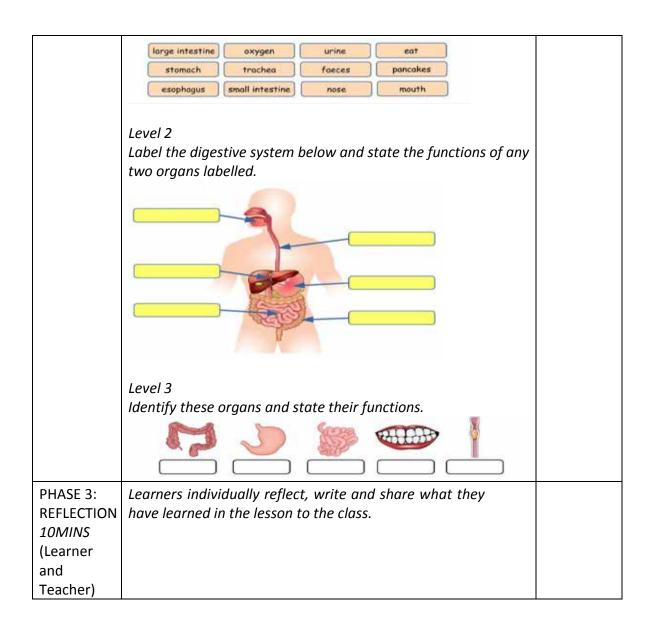
Basic Daily Learning Plan Basic Four - Week 5

PHASE/	I FARNERS ACTIVITIES		RESOURCES	
Key words: digestion, mastication, absorption				
Core competencies: communication and collaboration, critical thinking and problem- solving, creativity and innovation				
interdependently to perform a specific function		Performance Indicator: Learners can identify the org digestive system and state their fu	•	
Content standard: <i>B4.3.1.1 Recognise that different parts of the human body work</i>		Indicators: B4.3.1.1.1 Know the organs of the digestive system and their functions		
Class: B 4				
Day: Wednes	day	Sub-Strand: The human body system		
Date: 12/04,	/2023	Strand: Systems		
Name of Scho	ol: Minti D/A Basic			

PHASE/ **RESOURCES DURATION** PHASE 1: i. Learners answer questions to revise previous lesson on STARTER 10 change of state of matter. MINS (Preparing ii. Introduce the topic and share the learning indicator with the Brain learners. for Learning) PHASE 2: i. Learners learn key words using drills video MAIN Learners watch a video of the digestive system 40MINS ii. Learners individually observe the organs of the digestive (New Learning system keenly, write down their observations and share with the class Including Assessment iii. Learners in mixed gender groups state the functions of the various organs of the digestive system iv. Teacher supports learners with learning needs to write and explain some parts of the digestive system and their functions. Assessment

Choose the words related to the digestive system.

Level 1

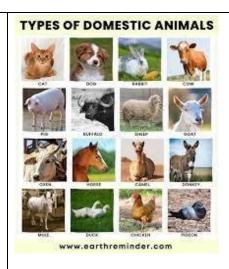


Appendix 6.2

Basic Daily Learning Plan Basic Seven – Week 4

Name of School: Supom Basic

Date: 12/04/2023		Strand: Cycles	
Day: Wednesday		Sub-Strand: Animal Production	
Class: B 7			
Content standard: <i>B7.2.4.1</i> Demonstrate understanding of the differences among domestic animals such as ruminants, monogastric and		Indicators: <i>B7.2.4.1.1 Examine and list at least five domestic animals in the community B7.2.4.1.2 Show the differences and similarities</i>	
poultry (monogastric	herbivore)	among domestic animals	
		Performance indicator: Learners can identify and give exam domestic animals	ples of
Core competencies: d and collaboration	igital literacy, crit	tical thinking and problem solving, co	mmunication
Key words: monogast	ric, mammals, do	mestic, herbivore	
PHASE/DURATION	LEARNERS ACTI	VITIES	RESOURCES
PHASE 1: STARTER 10 MINS (Preparing the Brain for Learning)	i. Learners ment ii. Learners in gr mentioned above the home and the or wild.		
	iii. Introduce the topic and share learning indicators with learners.		
PHASE 2: MAIN 40MINS	i. Learners learn	word cards	
(New Learning Including Assessment)	ii. Learners in graccording to the class.	Pictures of animals	
			PowerPoint slides.



iii. Learners through PowerPoint presentation identify and group domestic animals according their characteristics.

Level 1
Mammals (four-legged with fur/hair):

Animal	Male	Female	Young one
cattle	bull	cow	calf
sheep	ram	ewe	lamb
goat	billy/buck	nanny/doe	kid

Poultry / Fowl (two-legged with feathers):

Animal	Male	Female	Young one
chicken	cock	hen	chick
duck	drake	duck	duckling
guinea fowl	rostro	hen	keet

Level 2

Mammals (that eat green plants) herbivore:

Animal	Male	Female	Young one
Cattle	bull	Cow	calf
Sheep	ram	ewe	lamb
Goat	billy/buck	nanny/doe	kid

Mammals (that eat flesh) carnivores:

	terrane (errane care j. com, carrier care					
Animal	Male	Female	Young one			
dog	dog	bitch	рирру			
cat	tom	queen	kitten			

		-	eat both p	lants and flesl	h)
	omnivore Animal	es: Male	Female	Young one	1
	dog	dog	bitch	-	-
	-			рирру	
	pig	boar	sow	piglet	
	cat	tom	queen	kitten	
	Level 3 Mammal monogas	-	one stomo	ach chamber)	
	Animal	Male	Female	Young one	1
	pig	boar	sow	piglet	-
	rabbit	buck	doe	kit	
	cat	tom	queen	kitten	
	herbivord	ous rum	inants:	Voung one	1
	Animal cattle	Male bull	Female cow	Young one calf	
	sheep	ram	ewe	lamb	
	goat	billy	nanny	kid	1
	9000	~,	1	1	J
	Assessme	ent:			
	Learners	answer	the questi	on below:	
				e example each	n of th
	examples	of dom	estic anim	als.	
PHASE 3: REFLECTION LOMINS				t, write and s sson with the c	
(Learner and					
Teacher)					

PLC Session 7: Supporting the Teaching of Science at the Right Level Using Literacy

Mgiit Level	Using Literacy		•
Focus: the	Guidance notes on Leading	Guidance Notes on Teacher	Time in
bullet points	the session. What the PLC	Activity during the PLC	session
provide the	Coordinator will have to say	Session. What teachers will	
frame for what	during each stage of the	do during each stage of	
is to be done in	session	the session.	
the session. The			
writer should			
use the bullets			
to guide what			
they write for			
the PLC			
Coordinators			
and teachers to			
do and say			
during each			
session. Each			
bullet needs to			
be addressed			
1. Introduction	1.1 Start the PLC session by asking teachers to share what they did differently in the classroom or elsewhere based on PLC Session 6, on supporting the teaching of literacy at the right level in science, which they think impacted learning positively.	1.1 Share what you did differently in the classroom or elsewhere based on PLC Session 6, on supporting the teaching of literacy at the right level in science, which you think impacted learning positively.	20mins
	1.2 Ask teachers to discuss and summarise in a single sentence why they think what their colleague did by using what they learned in Session 6, on supporting the teaching of literacy at the right level in science, supported learning.	1.2 Discuss and summarise in a single sentence why you think what your colleague did by using what you learned in Session 6, on supporting the teaching of literacy at the right level in science, supported learning.	
2. Planning for	2.1 Introduce the session by	2.1 Read and explain the	10mins
teaching,	asking one teacher to read	purpose, learning outcome	
learning and	and explain the purpose,	(LO) and learning indicators	
assessment	learning outcome (LO) and	(LIs).	
activities,	learning indicators (LIs).		
making links			
with the Pre-			
	l		

Tertiary (standardsbased) Curriculum and using GESI, SEL, ICT and 21st century skills

Purpose:

The purpose of this session is to help teachers in basic schools to develop the various skills and abilities to use literacy in supporting the teaching and learning of science at the right level.

- LO: Demonstrate knowledge, understanding and application of teaching basic science curriculum at the right level using literacy (NTS 2d, 2e and 3i).
- LI 1 State at least three strategies that can be used to teach science using literacy.
- LI 2 Discuss at least three assessment techniques that can be used in teaching science using literacy.
- 2.2 Ask teachers in groups to discuss at least three strategies that support the teaching of science using literacy (NTS 2c, 2e, 3e and 3g).

E.g.

- a) Incorporate reading:
 Teachers can use books,
 articles and other
 reading materials to
 help learners
 demonstrate
 understanding of
 scientific concepts and
 theories
- b) Teach scientific
 vocabulary: Science has
 a unique vocabulary that
 learners need to learn in
 order to understand

Purpose:

The purpose of this session is to help teachers in basic schools to develop the various skills and abilities to use literacy in supporting the teaching and learning of science at the right level.

- LO: Demonstrate knowledge, understanding and application of teaching basic science curriculum at the right level using literacy (NTS 2d, 2e and 3i).
- LI 1 State at least three strategies that can be used to teach science using literacy.
- LI 2 Discuss at least three assessment techniques that can be used in teaching science using literacy.
- 2.2 In groups, discuss at least three strategies that support the teaching of science using literacy (NTS 2c, 2e, 3e and 3g).

E.g.

Incorporate reading:
Teachers can use
books, articles and
other reading
materials to help
learners demonstrate
understanding
scientific concepts and
theories, etc.

- scientific concepts.
 Teachers can support
 the learning of science
 by introducing new
 vocabulary terms and
 help learners understand
 their meanings in
 context
- c) Use graphic organizers:
 Graphic organizers are
 visual aids that can help
 learners understand
 complex ideas. They can
 be used to organize
 information, compare
 and contrast ideas and
 identify cause-and-effect
 relationships
- d) Encourage writing of scientific text: Teachers can encourage learners to write about what they have learned, including scientific observations, experiments and hypotheses, etc.
- 2.3 Ask teachers in pairs to think and share at least three assessment techniques that can be used to teach science using literacy (NTS 3k, 3l and 3m).

E.g.

- a) Oral presentations: Oral presentations can be used to assess learners' ability to communicate scientific concepts verbally. This can include presentations on scientific concepts, laboratory demonstrations and other oral assessments
- b) Concept maps: They are graphical tools that

2.3 In pairs, think and share at least three assessment techniques that can be used to teach science using literacy (NTS 3k, 3l and 3m).

E.g.

Oral presentations: Oral presentations can be used to assess learners' ability to communicate scientific concepts verbally. This can include presentations on scientific concepts, laboratory demonstrations and other oral assessments, etc.

- depict the relationship between concepts and ideas. They can be used to assess learners' understanding of the relationships between scientific concepts. Teachers can ask learners to create concept maps to demonstrate their understanding of a particular scientific concept or theory
- c) Science projects: Science projects can be used to assess learners' ability to apply scientific concepts in a real-world setting. Projects can be designed to allow learners to demonstrate their understanding of scientific principles and their ability to apply that knowledge to solve real-world problems
- d) Quizzes and tests:
 Traditional quizzes and
 tests can be used to
 assess learners'
 understanding of
 scientific concepts. These
 assessments can cover a
 range of topics and can
 be used to identify areas
 where learners may
 need additional support
 or instruction
- e) Peer reviews: Peer reviews can be used to assess learners' ability to provide constructive feedback and engage in scientific discourse.

 Teachers can ask learners to review each

	-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		
	other's work, including written assignments,		
	laboratory reports and		
	other assessments, to		
	assess their ability to		
	provide feedback and		
	engage in scientific		
	discussion, etc.		
	·	Refer to Annandiy 7.1 for a	10 mins
	Refer to Appendix 7.1 for a	Refer to Appendix 7.1 for a	10 1111115
	sample lesson plan in science	sample lesson plan in	
	for B1 (for KG-B6 teachers) and Appendix 7.2 for a	science for B1 (for KG-B6 teachers) and Appendix 7.2	
	sample lesson plan in science	for a sample lesson plan in	
	for B7 (for B7-B9 teachers).	science for B7 (for B7-B9	
	JOI 67 (JOI 67-69 teachers).		
		teachers).	
	2.5 Ask teachers to indicate	2.5 Indicate how the lesson	
	how the lesson will be taught	will be taught using	
	using appropriate pedagogies	appropriate pedagogies	
	and assessment methods for	and assessment methods	
	teaching at the right level	for teaching at the right	
	(NTS 3a, 3e, 3g and 3k).	level (NTS 3a, 3e, 3g and	
	(1110 50) 50, 58 0110 511,	3k).	
	E.g.	E.g.	
Appropriate pedagogies:		Appropriate pedagogies:	
i. Question and answer		The special paragraphs	
	ii. Hands-on activity	Demonstration, etc.	
	iii. Enquiry based	, , , , , , , , , , , , , , , , , , , ,	
	approach		
	iv. Collaborative teaching		
	v. PowerPoint		
	presentation		
	vi. Drilling		
	Assessment methods:	Assessment methods:	
	a) Oral questions	Oral questions	
	b) Presentations		
c) Test			
	d) Observation		
3. Modelling a	3.1 Ask a teacher to model a	3.1 Model a teaching	15mins
teaching	teaching activity in the	activity in the sample	
activity, making	sample lesson plan for	lesson plan for feedback	
links with the	feedback from their	from your colleagues taking	
Pre-Tertiary	colleagues taking into	into consideration GESI,	
(standards-	consideration GESI, SEL, ICT	SEL, ICT and 21st century	
based)	and 21 st century skills (NTS	skills (NTS 2e, 3a and 3c).	
Curriculum and	2e, 3a and 3c).		

using GESI, SEL,	3.2 Ask teachers to provide	3.2 Provide feedback on	
ICT and 21st	feedback on the modelled	the modelled lesson (NTS	
century skills	lesson (NTS 1a, 1b).	1a, 1b).	
4. Evaluation	4.1 Ask teachers to reflect	4.1 Reflect individually,	5 mins
and review of	individually, write and share	write and share what you	
session:	what they have learned in the	have learned in the session	
	session with the larger group	with the larger group (NTS	
 Noting that 	(NTS 1a, 1b).	1a, 1b).	
teachers			
need to	4.2 Remind teachers to,	4.2 Where appropriate,	
identify	where appropriate, identify a	identify a colleague to	
critical	colleague to observe them	observe your lessons in	
friends to	while they teach their lesson	relation to PLC Session 7	
observe in relation to PLC Session 7		and provide feedback to	
lessons and	and provide feedback to them	you (NTS 3I).	
report at	(NTS 3I).		
next session			
	4.3 Remind teachers to read	4.3 Read Session 8 of the	
	Session 8 of the PLC	PLC Handbook in	
	Handbook in preparation for	preparation for the next	
	the next PLC session (NTS 3a).	PLC session (NTS 3a).	

Appendix 7.1

Basic Daily Learning Plan Basic One – Week 6

Name of School: Besease D/A Primary

Name of School: Besea	se D/A Primary				
Date: 12/04/2023	Date: 12/04/2023		Diversity		
Day: Wednesday		Sub-stra	Sub-strand: <i>materials</i>		
Class: B 1					
Content Standard: B1			Indicators: B1.1.2.2.1 Identify and classify		
substances can exist i			materials as solid, liquid or gas		
physical states (solid,	, , , , ,		ance indicator:		
Many substances can from one state to ano	_		Learners can classify materials as solid, liquid or		
or cooling	ther by neating	gas.			
Core competencies: c	ritical thinking o	and problem	-solving, creativity	and innovation	
Key words: materials,	solid, liquid and	d gas			
PHASE/DURATION	LEARNERS AC	TIVITIES		RESOURCES	
PHASE 1: STARTER 10 MINS (Preparing the Brain	i. Learners mo the classroom		h things they see ir		
for Learning)	ii. Learners me	ention name	s of the things they	/	
	have touched.				
PHASE 2: MAIN 40MINS	i. Learners lea	rn keywords	using drills.	plastic, stones, paper, pencil,	
(New Learning	ii. Learners classify materials as solid, liquid			crayons, inflated	
Including Assessment)	or gas based of characteristics		ical	balloons, water, sand, salt, sugar,	
Assessment	Characteristics) .		projector, laptop,	
	Level 1			video, sobolo drink	
	i. Learners me	ntion which	of the materials		
	-		ched or held and		
	classify them b	based on the			
	ii. Learners op	en their han	ds and blow air		
	into it. Learners tell what happened when				
	they blew the	air into thei			
	Characteristics of solids, liquids and gases				
	Solid	Liquid	Gas		
	can be	can be	cannot be		
	seen	seen	seen		
	can be	can be	cannot be		
	touched	touched	touched		

	can be	canno	ot be	can be felt
	held	held		
	Level 2			
	i. Learners v	vatch a v	ideo ar	nd use it as a
	guide to cla	ssify the	materi	als given.
	Characterist	tics of so	lids, liq	uids and gases
	Solid	Liquid	Gas	
	it is very	it is	it is n	ot heavy
	heavy	heavy		
	it is very	it is	it is n	ot hard
	hard	hard		
	cannot	can	can n	nove faster
	flow	flow	in all	direction
				_
	Level 3			
	i. Learners e	xplore a	nd list r	naterials they se
	in their envi	ronment		
	ii. In groups,	, learners	s sort tl	ne mentioned
	materials in	to solid,	liquid a	nd gas with
	reasons.			
				ies to identify ga
	using inflate	ed balloo	n, brea	thing in and out.
		-	-	ndings based on
	the activitie	s perforr	ned.	
	Characterist	tics of so	lids, lig	uids and gases
	Solid	Liqui		Gas
	has fixed	takes		takes the
	shape		e of the	
		conto	-	container
	has fixed		fixed	it has no
	volume	volur	-	fixed volume
	cannot be	cann		can be
	compresse		ressed	
	20111912332	a comp	7.0000	compressed
	Assessment	:		
	Ask learners	to answ	er the	question below:
				s each for solid,
	liquid and g			,
PHASE 3:			reflec	t, write and shar
	Leuineis iii			., wille alla silai
REFLECTION		=	-	
		=	-	he lesson with th
REFLECTION	what they h	=	-	

Appendix 7.2

Basic Daily Learning Plan Basic seven - Week 4

Name of School: Asiwa Model JHS					
Date: 12/04/2023	Strand: Cycles				
Day: Wednesday	Sub-Strand: Earth Science				
Class: B 7					
Content standard: <i>B7.2.1.1 Recognize</i> that the water cycle is an example of	Indicators: <i>B7.2.1.1.2 Discuss the benefits of the water cycle in nature</i>				
repeated patterns of change in nature and understand how it occurs	Performance indicator: Learners can discuss the benefits of the water cycle in nature				
Core competencies: communication and collaboration, digital literacy, critical thinking and problem solving					
Key words: precipitation, condensation, evaporation, collection					
PHASE/DURATION LEARNERS ACTIVITIES RESOURCES					

PHASE/DURATION	LEARNERS ACTIVITIES	RESOURCES
PHASE 1: STARTER 10 MINS (Preparing the Brain for Learning)	i. Learners answer questions to revise previous lesson on change of state of matter.ii. Introduce the topic and share performance indicators	
PHASE 2: MAIN 40MINS (New Learning Including Assessment)	i. Learners learn the key words using drillii. Learners watch a video and use it to describe the stages of the water cycle.	word cards videos
	i. evaporation- the process of turning liquid into vapor ii. condensation – is the change of the state of matter from the gas phase into the liquid phase	

	iii anasinitatiaa falliaa anadusta of sandanaatiaa
	iii. precipitation – falling products of condensation
	in the atmosphere, as rain, snow, or hail.
	Level 1
	Learners give three benefits of the water cycle.
	Level 2
	Learners discuss the benefits of the water cycle.
	Level 3
	Learners discuss the benefits of the water cycle in
	terms of:
	a) Energy source (release of energy to warm the
	environment)
	b) Carrier of nutrients
	c) Improving water table
	d) Regulating weather pattern
	e) Provision of clean water
	Assessment
	With a diagram, illustrate the importance of the
	water cycle in a community.
PHASE 3:	Learners individually reflect, write and share what
REFLECTION	they have learned in the lesson with the class.
10MINS	they have realised in the resson with the class.
(Learner and	
,	
Teacher)	

PLC Session 8: Supporting the Teaching of Literacy at the Right Level in Social Studies (Our World Our People)

Mgiit Levei	iii 30ciai 3tudies (Oui	World Our reopie)	
Focus: the	Guidance notes on Leading	Guidance Notes on Teacher	Time in
bullet points	the session. What the PLC	Activity during the PLC	session
provide the	Coordinator will have to say	Session. What teachers will	
frame for what	during each stage of the	do during each stage of the	
is to be done in	session	session	
the session. The			
writer should			
use the bullets			
to guide what			
they write for			
the PLC			
Coordinators			
and teachers to			
do and say			
during each			
session. Each			
bullet needs to			
be addressed			
	asking teachers to share what they did differently in the classroom and elsewhere based on the PLC Session 7 on supporting the teaching of science at the right level using	differently in the classroom and elsewhere based on the PLC Session 7 on supporting the teaching of science at the right level using literacy, which you	
	literacy, which they think impacted learning positively.	think impacted learning positively.	
	their colleague did by way of application of what they learned in Session 7, teaching of science at the right level using literacy, supported learning.	1.2 Discuss and summarise in a single sentence why you think what your colleague did by way of application of what they learned in Session 7, teaching of science at the right level using literacy, supported learning.	
2. Planning for	2.1 Introduce the session by	2.1 Read and explain the	15mins
teaching,	asking one teacher to read	purpose of the session, the	
learning and	and explain the purpose of	learning outcome (LO) and	
assessment	the session, the learning	the learning indicators (LIs).	
activities,	outcome (LO) and the		
making links	learning indicators (LIs)		
with the Pre-			

Tertiary (standardsbased) Curriculum and using GESI, SEL, ICT and 21st century skills

Purpose:

In Social Studies (Our World Our People), educators teach learners the content knowledge, intellectual skills and civic values necessary for fulfilling the duties of citizenship in a participatory democracy. Therefore, the primary purpose of this session is to help teachers to guide learners to develop the ability to make informed and reasoned decisions for the public as good citizens of a culturally diverse, democratic society in an interdependent world, and communicating these decisions accurately. Strategies used in this session seek to help teachers to support struggling learners engage with texts, communicate effectively, pronounce words correctly, develop constructive listening skills and construct meaningful sentences to build deeper understanding through guided inquiry.

LO: Demonstrate knowledge and understanding of how to apply teaching strategies in social studies to support literacy development (our world our people) at the right level (NTS 2c, 2d, 2e, and 3i)

Purpose:

In Social Studies (Our World Our People), educators teach learners the content knowledge, intellectual skills and civic values necessary for fulfilling the duties of citizenship in a participatory democracy. Therefore, the primary purpose of this session is to help teachers to guide learners to develop the ability to make informed and reasoned decisions for the public as good citizens of a culturally diverse, democratic society in an interdependent world, and communicating these decisions accurately. Strategies used in this session seek to help teachers to support struggling learners engage with texts, communicate effectively, pronounce words correctly, develop constructive listening skills and construct meaningful sentences to build deeper understanding through guided inquiry.

LO: Demonstrate knowledge and understanding of how to apply teaching strategies in social studies to support literacy development (our world our people) at the right level (NTS 2c, 2d, 2e, and 3i).

- LI 1 State and explain at least five ways of teaching literacy in social studies (our world our people) at the right level.
- LI 2 Give at least four ways of assessing the teaching of literacy in social studies (our world our people) at the right level.
- 2.2 Ask teachers in groups to state ways of teaching literacy in social studies (our world our people) in their various classes (NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i). *E.g.*
 - a) Reading
 Comprehension (Silent
 Reading) Strategy: Use
 Social studies-related
 texts to teach nonfiction reading
 strategies during the
 reading block. This can
 be done with trade
 books, , social studies
 textbooks,
 newspapers,
 magazines, etc.
 - b) Read-aloud Strategy:
 Learners can read
 aloud a selected text
 in social studies for
 discussion. The
 teacher can pull a
 handful of key
 vocabulary to discuss
 with learners before
 and after reading.
 - c) Role Play: The teacher can get learners to role play some selected characters or scenario in a social studies lesson. In role

LI 1 State and explain at least five ways of teaching literacy in social studies (our world our people) at the right level.
LI 2 Give at least four ways of assessing the teaching of literacy in social studies

(our world our people) at

the right level.

- 2.2 In groups, state ways of teaching literacy in social studies (our world our people) in your various classes (NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i). *E.g.*
 - Reading
 Comprehension (Silent
 Reading) Strategy Using social studiesrelated texts to teach
 non-fiction reading
 strategies.

nlay learners develon	
play, learners develop	
their communication,	
language and literacy	
as they talk	
d) Debate: The teacher	
can provide learners	
with the opportunity	
to explore real-world	
topics and issues by	
speaking for or	
against a motion	
e) Storytelling: A related	
story is presented on	
the topic in social	
studies under	
discussion and	
learners listen, discuss,	
summarise plot,	
setting and	
characterization, etc.	
	10 mins
sample lesson plan in Social sample lesson plan in Social	
Studies (Our World Our Studies (Our World Our	
People) in B 6 (for KG-B6 People) in B 6 (for KG-B6	
teachers) and Appendix 8.2 teachers) and Appendix 8.2	
for sample lesson plan for B8 for sample lesson plan for	
in Social Studies (for B7-B9 B8 in Social Studies (for B7-	
teachers) B9 teachers)	
2.3 Ask teachers to indicate 2.3 Indicate how the	
how the activities in the activities in the lesson will	
lesson will be assessed using be assessed using	
assessment as, assessment assessment	
for and assessment of for and assessment of	
learning activities (NTS 3i, 3k, learning activities (NTS 3i,	
3m and 3n). 3k, 3m and 3n).	
E.g. E.g.	
a) Reading Reading	
comprehension: comprehension:	
Leaners respond to leaners respond to	
questions from the questions from the	
text by writing text by writing, etc.	
b) Read-aloud Strategy:	
Leaners respond to	
questions orally	
c) Role play: Learners	
role play some	

	T	Т	1
	selected characters		
	from a given text		
	d) Debate: Learners are		
	put into groups to		
	argue for or against a		
	given motion to		
	develop their oral skills		
	e) Storytelling: Learners		
	listen, discuss, write,		
	summarise plot,		
	•		
	setting and		
	characterization of a		
	story given, etc.		1
3. Modelling a	3.1 Ask a teacher to model a	3.1 Model a teaching	15 mins
teaching	teaching activity in the	activity in the sample	
activity, making	sample lesson plan that	lesson plan that support	
links with the	support the teaching of	the teaching of literacy at	
Pre-Tertiary	literacy at the right level in	the right level in Social	
(standards-	Social Studies (Our World Our	Studies (Our World Our	
based)	People), considering GESI,	People), considering GESI,	
Curriculum and	SEL, ICT and 21st century skills	SEL, ICT and 21st century	
using GESI, SEL,	for feedback from their	skills for feedback from	
ICT and 21st	colleagues (NTS 2c, 2d, 2e, 3a,	your colleagues (NTS 2c,	
century skills	3f, 3g and 3j).	2d, 2e, 3a, 3f, 3g and 3j).	
,	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	
	3.2 Ask teachers to provide	3.2 Provide feedback on	
	feedback on the lesson	the lesson modelled (NTS	
	modelled (NTS 1a, 3i).	1a, 3i).	
		23, 3.,.	
4. Evaluation	4.1 Ask teachers to reflect	4.1 Reflect individually and	5 mins
and review of	individually and write what	write what you have	
session:	they have learned in the	learned in the session and	
30331011.	session and share with the	share with the larger group	
	larger group (NTS 1a, 1b).	(NTS 1a, 1b).	
O Noting that	iaigei gioup (Nis ta, tu).	(NIS 10, 10).	
Noting that teachers	4.2 Remind teachers to,	12 Whore appropriate	
need to	1	4.2 Where appropriate,	
	where appropriate, identify a	identify a colleague to	
identify	colleague to observe them	observe your lesson in	
critical	while they teach their lesson	relation to PLC Session 8	
friends to	in relation to PLC Session 8	and provide feedback to	
observe 	and provide feedback to them	you (NTS 3I).	
lessons and	(NTS 3I).		
report at			
next session	4.3 Remind teachers to read	4.3 Read Session 9 of the	
	Session 9 of the PLC	PLC Handbook in	
	Handbook in preparation for	preparation for the next	
	the next PLC session (NTS 3a).	PLC session (NTS 3a).	
	1 1111 111 (1112 24).	1	<u> </u>

APPENDIX 8.1

Daily Learning Plan
Basic Six – Week 4

Name of School: Abaafom D/A Primary

Name of School: Abaa	atom D/A Primary			
Date: 28 th MARCH, 2023		Strand 4: OUR NATION GHANA		
Day: Tuesday		Sub-Strand 1: Being a Citizen		
Class: B. 6				
Content Standard: B		Indicators: B6.4.1.1.1. Describe	e activities for	
Demonstrate unders		peaceful living		
behaviours and attit	udes for peaceful	_	B6.4.1.1.2. Describe skills for resolving conflicts in	
living		the family		
		Performance Indicator:	f living page fully in	
		Learners can describe ways of the community and indicat	• • • • •	
		conflicts in the family and the		
Core Competencies	and Core Values: cor	mmunication and collaboration	,	
KEY WORDS: Citizen	ship, peaceful, conf	lict, attitude, responsibility		
PHASE/DURATION	LEARNERS ACTIVIT	TIES	RESOURCES	
PHASE 1:		eading questions on the		
STARTER 10 MINS	•	the lives of the religious		
(Preparing the		st, The Holy Prophet		
Brain for Learning)	Muhammad (S.A.V			
	other activities.	ye) – priesthood, miracles and		
PHASE 2: MAIN		ounce and spell key words in	Pre-recorded	
40MINS	the lesson	Junee and spen key words in	videos	
(New Learning		xed ability groups discuss ways	Laptop	
Including	-	fully with each other e.g. love,	projector	
Assessment)		giveness, self-control.	, ,	
,	, , ,	ss the importance of peaceful		
	living e.g. toge	etherness, security,		
	development.			
		ge in a role-play and other		
		emonstrate peaceful living by		
	1	rent ethnic groups celebrating		
	together.	h pro recorded video es		
	1 *	h pre-recorded video on nce with sound.		
		nto the video, say and write to		
	1	tic violence and conflict.		
		ify and discuss the causes of		
		nce and conflict in the family.		
		, , ,		

	h) Support learners with learning needs to write and explain the causes of domestic violence. i) Learners discuss the effects of domestic violence on the family. j) Learners watch pre-recorded video on peaceful co-existence. E.g. https://www.youtube.com/watch?v=fbitCCDQhfE https://youtube.be.DQKubYxw1fo https://www.youtube.com/watch?v=IL-8C12lsu0 k) Learners role-play peaceful resolution of conflict in the school, family and community. Assessment a) Learners state at least 3 ways of living peacefully with one another b) Learners state at least 5 examples of the importance of peaceful living in Ghana c) Learners identify and explain at least 4 causes of conflict d) Learners state at least 3 ways of resolving conflict.
PHASE 3: REFLECTION	Learners review the lesson by answering the following questions:
10MINS	a) What have you learned today?
(Learner and	b) What are some of the causes of conflict?
Teacher)	c) What are some of the things that will enable
	families live together peacefully?
	d) How will you resolve conflict in the family?

APPENDIX 8.2

Daily Learning Plan
Basic Eight: Week 1

Name of School: Abaafom D/A Primary

Date: 28 th MARCH, 2023	Strand 1: Environment
Day: Monday	Sub-Strand 1: Environmental Issues
CLASS: B 8	
Content Standard: B8.1.1.1 Demonstrate skills in dealing with environmental	Indicators: B8.1.1.1.1. Examine water pollution as an environmental challenge
challenges	Performance Indicator:
	Learners can state and explain the causes and
	effects of water pollution.

Core Competences and Core Values:

Analyse and make distinct judgment about viewpoints expressed in an argument; Interpret correctly and respond to non-verbal communication; speak clearly and explain ideas; Share a narrative or extended answer while speaking to a group; ability to discuss and use ideas from several sources to reach a conclusion; ability to ascertain when information is needed and be able to identify, locate, evaluate and effectively use them to solve a problem and use digital tools to create novel things

KEY WORDS: Environment, water, pollution, industrial waste

KET WORDS. Environment, water, ponation, maastral waste				
PHASE/DURATION	LEARNERS ACTIVITIES	RESOURCES		
PHASE 1:	Learners answer leading questions on the previous			
STARTER 10 MINS	lesson on: 1) the environment			
(Preparing the	2) sanitation and			
Brain for Learning)	3) the cultural practices and their related problems for			
	sanitation in the community			
PHASE 2: MAIN	a) Learners pronounce and spell key word in the lesson	Beakers,		
40MINS	b) Learners in mixed ability groups discuss the concept	Water		
(New Learning	of pollution	Sand and		
Including	c) Learners watch a pre-recorded documentary of	Oils		
Assessment)	polluted water bodies			
	d) https://www.youtube.com/watch?v=MEb7nnMLcaA	Pre-		
	e) <u>https://www.youtube.com/watch?v=MOtmb6N6IIA</u>	recorded		
	f) Learners in mixed ability groups listen to the video,	videos		
	say and write to explain the causes of water			
	pollution e.g. humans, animals and industrial waste			
	g) Learners demonstrate with explanations how			
	human activities, animals' behaviour and industrial			
	waste pollute our water bodies.			
	h) Learners draw polluted water bodies	Crayon		
	i) Learners in mixed ability groups examine the effects	Cardboard		
	of water pollution e.g. destruction of aquatic life			

	(death of fish) and the contamination of water bodies leading to diseases such as cholera, typhoid and dysentery j) Support learners with learning needs to write and explain the causes and effects of k) water pollution l) Learners in mixed ability groups write and make presentation on the need to prevent water pollution. m) Assessment i. Learners state at least 3 causes of water pollution ii. Learners state and explain 3 effects of water pollution iii. Learners explain 3 ways of preventing water pollution in Ghana
PHASE 3:	Learners review the lesson by answering the following
REFLECTION	questions:
10MINS	i. What have you learned today?
(Learner and	ii. What are some of the causes of water pollution?
Teacher)	iii. What are some of the effects of water pollution?
	iv. Why the need to prevent water pollution?

PLC Session 9: Supporting the Teaching of Social Studies (Our World Our People) at the Right Level Using Literacy

Focus: the	Guidance notes on Leading	Guidance Notes on	Time in
bullet points	the session. What the PLC	Teacher Activity during the	session
provide the	Coordinator will have to say	PLC Session. What teachers	30331011
frame for what	during each stage of the	will do during each stage of	
is to be done in	session	the session	
the session. The	36331011	the session	
writer should			
use the bullets			
to guide what			
they write for			
the PLC			
Coordinators			
and teachers to			
do and say			
during each			
session. Each			
bullet needs to			
be addressed			
1. Introduction	1.1 Start the PLC session by	1.1 Share what you did	20mins
	asking a teacher to share	differently in the classroom	
	what they did differently in	or elsewhere based on the	
	the classroom or elsewhere	PLC Session 8, on	
	based on the PLC Session 8,	supporting the teaching of	
	on supporting the teaching of	literacy at the right level in	
	literacy at the right level in	Social Studies (Our World	
	Social Studies (Our World Our	Our People), which you	
	People), which they think	think impacted learning	
	impacted learning positively.	positively.	
	1.2 Ask teachers to discuss	1.2 Discuss and summarise	
	and summarise in a single	in a single sentence why	
	sentence why they think	you think what your	
	what their colleague did by	colleague did by way of	
	way of application of what	application of what you	
	they learned in Session 8,	learned in Session 8,	
	supporting the teaching of	supporting the teaching of	
	literacy at the right level in	literacy at the right level in	
	Social Studies (Our World Our	Social Studies (Our World	
	People), supported learning.	Our People), supported	
		learning.	
2. Planning for	2.1 Introduce the session by	2.1 Read and explain the	10 mins
teaching,	asking one teacher to read	purpose, the learning	
learning and	and explain the purpose, the	outcome (LO) and learning	

assessment
activities,
making links
with the PreTertiary
(standardsbased)
Curriculum and
using GESI, SEL,
ICT and 21st
century skills

learning outcome (LO) and learning indicators (LIs).

Purpose:

Teaching Social Studies (Our World Our People) using literacy is to help teachers to construct meaning, think critically, and build content knowledge. This session is designed to help teachers develop skills and abilities to teach learners to develop the appropriate language registers in Social Studies (Our World Our People).

LO: Demonstrate knowledge, understanding and application of methods of teaching of Social Studies (Our World Our People) at the right level using literacy (NTS 2c, 2d, 2e and 3i).

LI 1 State and explain at least five ways of teaching Social Studies (Our World Our People) at the right level using literacy.
LI 2 Give at least five ways of assessing the learning of Social Studies (Our World Our People) at the right level using literacy.

2.2 Ask teachers to thinkpair-share and state how they will teach Social Studies (Our World Our People) at the right level using literacy (NTS indicators (LIs) of the session.

Purpose:

Teaching Social Studies (Our World Our People) using literacy is to help teachers to construct meaning, think critically, and build content knowledge. This session is designed to help teachers develop skills and abilities to teach learners to develop the appropriate language registers in Social Studies (Our World Our People).

LO: Demonstrate knowledge, understanding and application of methods of teaching of Social Studies (Our World Our People) at the right level using literacy (NTS 2c, 2d, 2e and 3i).

LI 1 State and explain at least five ways of teaching Social Studies (Our World Our People) at the right level using literacy.
LI 2 Give at least five ways of assessing the learning of Social Studies (Our World Our People) at the right level using literacy.

2.2 Think-pair-share and state how you will teach Social Studies (Our World Our People) at the right level using literacy (NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i).

1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i). *E.g.*

- a) Writing stories in social studies
- b) Listening to peers and teachers discussing issues in social studies
- c) Speaking to others about issues in social studies
- d) Pronunciation of words in social studies registers
- e) Roleplaying scenarios in social studies, etc.

2.3 Ask teachers in groups, to explain how the ways mentioned in Activity 2.2 can be used to teach Social Studies (Our World Our People) at the right level using literacy (NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i). *E.g.*

- a) Writing: Dictation of words, word formation games
- b) Listening: Watching pre-recorded video/audio
- c) Speaking: Reading text, role playing, describing scenes
- d) Pronunciation: Drill vocabulary in Social Studies for correct pronunciation and meaning
- e) Spelling of words in Social Studies, etc.

E.g.

Writing stories in social studies, etc.

2.3 Explain how the ways mentioned in Activity 2.2 can be used to teach Social Studies (Our World Our People) at the right level using literacy (NTS 1b, 2c, 2d, 2e, 2f, 3f, 3g and 3i).

E.g.

Writing: dictation of words, word formation games, etc.

Refer to Appendix 9.1 for a sample lesson plan in Social Studies (Our World Our People) for B 4 (for KG-B6 teachers) and Appendix 9.2 for a sample lesson plan in Social Studies for B 9 (for B7-B9 teachers).

- 2.5 Ask teachers to indicate how the lesson will be assessed using assessment as, assessment for and assessment of learning activities supporting the teaching of Social Studies (Our World Our People) at the right level using literacy (NTS 3i, 3k, 3m and 3n). *E.g.*
 - a) Assessment for & as learning:
 - Learners answering questions they have posed about ways of ensuring environmental safety
 - ii. Peers holding a discussion on what they can do to protect plants and animals in the environment
 - iii. A teacher verifying whether learners are able to indicate what they can do to protect plants, animals, and water bodies in our environment and providing immediate feedback
 - iv. Learners discuss if there is the need to protect the

Refer to Appendix 9.1 for a sample lesson plan in Social Studies (Our World Our People) for B 4 (for KG-B6 teachers) and Appendix 9.2 for a sample lesson plan in Social Studies for B 9 (for B7-B9 teachers).

- 2.5 Indicate how the lesson will be assessed using assessment as, assessment for and assessment of learning activities supporting the teaching of Social Studies (Our World Our People) at the right level using literacy (NTS 3i, 3k, 3m and 3n). *E.g*
 - Learners answering questions they have posed about ways of ensuring environmental safety

10 mins

		T	I
	environment and		
	why		
	b) Assessment of learning:		
	i. Teacher asking		
	learners what they		
	have learned today		
	with the view to		
	recording and		
	grading their		
	responses		
	ii. Teacher asking		
	learners to state		
	some of the causes		
	of an unsafe		
	environment in a		
	class test		
	iii. Teacher asking		
	learners to work on		
	a project on the		
	activities that make		
	the environment not		
	safe for human		
	dwelling with the		
	view to grading the		
	work as part of their		
	continuous		
	assessment scores		
3. Modelling a	3.1 Ask a teacher to model a	3.1 Model a teaching	15mins
teaching	teaching activity that	activity that supports the	
activity, making	supports the teaching of	teaching of Social Studies	
links with the	Social Studies (Our World Our	(Our World Our People) at	
Pre-Tertiary	People) at the right level	the right level using literacy	
(standards-	using literacy in the sample	in the sample lesson plan,	
based)	lesson plan, considering GESI,	considering GESI, SEL, ICT	
Curriculum and	SEL, ICT and 21 st century skills	and 21 st century skills (NTS	
using GESI, SEL,	(NTS 2c, 2d, 2e, 3a, 3f, 3g and	2c, 2d, 2e, 3a, 3f, 3g and	
ICT and 21st	3j).	3j).	
century skills			
_	3.2 Ask teachers to provide	3.2 Provide feedback on	
	feedback on the modelled	the modelled activities in	
	activities in the lesson (NTS	the lesson (NTS 1a, 3i).	
	1a, 3i).	, ,	
(standards- based) Curriculum and using GESI, SEL, ICT and 21st	using literacy in the sample lesson plan, considering GESI, SEL, ICT and 21 st century skills (NTS 2c, 2d, 2e, 3a, 3f, 3g and 3j). 3.2 Ask teachers to provide feedback on the modelled activities in the lesson (NTS	in the sample lesson plan, considering GESI, SEL, ICT and 21 st century skills (NTS 2c, 2d, 2e, 3a, 3f, 3g and 3j). 3.2 Provide feedback on the modelled activities in	

		_	T	•
4.	Evaluation	4.1 Ask teachers to reflect	4.1 Reflect individually,	5 mins
an	d review of	individually, write and share	write and share what you	
se	ssion:	what they have learned in the	have learned in the session	
		session with the larger group	with the larger group (NTS	
0	Noting that	(NTS 1a, 1b).	1a, 1b).	
	teachers			
	need to	4.2 Remind teachers to,	4.2 Where appropriate,	
	identify	where appropriate, identify a	identify a colleague to	
	critical	colleague to observe them	observe your lessons in	
	friends to	while they teach their lesson	relation to PLC Session 9	
	observe	in relation to PLC Session 9	and provide feedback to	
	lessons and	and provide feedback to	you (NTS 3a, 3l).	
	report at	them (NTS 3a, 3l).		
	next session			
		4.3 Remind teachers to read	4.3 Read Session 10 of the	
		Session 10 of the PLC	PLC Handbook in	
		Handbook in preparation for	preparation for the next	
		the next PLC session (NTS 3a).	PLC session (NTS 3a).	

APPENDIX 9

Basic Daily Learning Plan

Basic 4 Week 2

Name of School: Fom D/A Primary

Number of School. For	. = , ,		
Date: 30 th May, 20.	23	Strand 2: ALL AROUND US	
Day: Wednesday		Sub-Strand 1: The Environment and the Weather	
CLASS: B. 4			
Content Standard B	4.2.1.1 Demonstrate	Indicators: B4.2.1.1 .1. Explain	wavs of makina
knowledge of enviro	onmental safety	the environment safe	, , ,
		Performance Indicator:	
		Learners can describe ways of r	naking the
		environment safe.	
Core Competencies	and Values: commun	ication and collaboration	
KEY WORDS: Citize	nship, peaceful, confl	ict, attitude, responsibility enviro	nment.
PHASE/DURATION	LEARNERS ACTIVITI	ES	RESOURCES
PHASE 1:	Start the lesson with	n a rhyme	
STARTER 10 MINS			
(Preparing the	Rain rain go away,		
Brain for Learning)	Go and come anoth	-	
	Little children want	to play	
	Rain rain go away		
	Or		
	As I walk across the	earth,	
	thousands of things		
	Birds fly high, soarin	ng higher,	
and on the flowers,		I hear	
	the buzz of bees.		
PHASE 2: MAIN	a) Learners spell, v	vrite and pronounce words	
40MINS		onmental protection.	
(New Learning	b) Learners answer these questions to explain		
Including	·	g environmental safety.	
Assessment)	i. Level 1	us do to protect plants and	
		ve do to protect plants and the environment?	
	ullilliuis III (THE CHVITOHIHETIC!	
	ii. Level 2		
		e protect plants, animals and	
		es in our environment?	

	iii. Level 3	
	Is there the need to protect the	
	environment? Why?	Pre-recorded
	c) Learners watch are recorded videos on human	
	c) Learners watch pre-recorded videos on human	videos
	activities that do not make the environment	Laptop
	safe: illegal mining (galamsey), sand winning,	
	indiscriminate cutting down of trees	
	(deforestation), pollution of the air and water	
	bodies, throwing plastic bags around.	
	https://www.youtube.com/watch?v=MOtmb6N6IIA	
	https://www.youtube.com/watch?v=XDURzqdsyZQ	
	https://www.youtube.com/watch?v=5TEQj_tfa50	
	d) Learners draw pictures on human activities that	Pictures
	negatively affect the environment: E.g., illegal	
	mining (galamsey), sand winning, indiscriminate	
	cutting down of trees (deforestation), pollution	
	of the air and water bodies, throwing plastic	
	bags around.	
	e) Learners in groups play games or engage in	
	activities/projects that teach ways of ensuring	
	safety in the community, e.g. preventing	
	flooding, preventing drowning, preventing fire	
	outbreaks by putting off electrical gadgets after	
	use, make fire extinguisher available in homes,	
	preventing road accidents, keeping the home	
	and classroom or school clean, planting trees,	
	recycling waste paper and plastic products.	
	f) Assessment	
	i. Point at letters for learners to identify	
	ii. Point at pictures for learners to describe	
PHASE 3:	Learners review the lesson by answering the	
REFLECTION	following questions:	
10MINS	a) What have you learnt today?	
(Learner and	b) What are some of the causes of an unsafe	
Teacher)	environment?	
·	c) What are some of the activities that make the	
	environment not safe for human dwelling?	
	d) What are some of the things that can be done to	
	ensure safety in the community?	
	,	

APPENDIX 9.2

Basic Daily Learning Plan Basic Nine – Week 4

Name of School: Abaafom D/A JHS

Strand 2: FAMILY LIFE
Sub-Strand 2: The Family
Indicators: B9.2.2.1.1. Examine the importance of marriage as social institution in Ghana
Performance Indicators: Learners can describe the concept of family:

Core Competencies and Values: Critical thinking and problem solving (CP), communication and collaboration (CC), creativity and innovation (CI)

KEY WORDS: family, marriage, institution, economic activities, teenage pregnancy, drug abuse, truancy

PHASE/ DURATION	LEARNERS ACTIVITIES	RESOURCES
PHASE 1:	Learners respond to leading questions by speaking and	
STARTER	writing on what makes up a family in Ghana.	
10 MINS		
(Preparing		
the Brain		
for		
Learning)		

PHASE 2:	a) Learners pronounce the key words in the Strand/topic	
MAIN	and explain their meaning	
40MINS	b) Learners watch pre-recorded video on the concept of	
(New	marriage. E.g. the family and religious sects	
Learning	https://youtu.be.TMc5B3EFy6s record	ded
Including	<pre>https://youtube.com/watch?v=fopt0BeXnY@feature=s</pre> videos	
Assessment	<u>hare</u> Lapto	р
)	<u>https://www.youtube.com/watch?v=z6wz_QpBwVU</u>	ctor
	c) Learners think-pair-share in mixed ability groups the	
	importance of marriage to the family. E.g. providing a	
	stable, loving setting for children to be brought up and	
	helping to provide economic support for parents.	
	d) Learners write ways of contracting the various types of	
	marriages in Ghana. E.g. payment of dowries, wedding, etc.	
	e) Learners in mixed ability groups write and speak out the	
	causes of broken homes in Ghana.	
	f) Learners in mixed ability groups write and make	
	presentations on the effects of broken marriages on the	
	family structure.	
	g) Correct learners' grammar and pronunciation, using correct	
	construction and structure of speech.	
	h) Give extra time to learners who are slow in writing and those	
	with pronunciation problems	
	i) Learners dramatise the effects of broken marriages on the	
	family structure such as teenage pregnancy, drug abuse and	
	truancy.	
	j) Assessment	
	i. Learners state 3 effects of broken homes	
	ii. Learners states at least 3 importance of marriage	
	iii. Learners state at least one way of contracting marriage	
	in Ghana	
PHASE 3:	Learners review the lesson by answering the following questions:	
REFLECTIO	a) What have you learnt today?	
N	b) What is the concept of marriage as a social institution?	
10MINS	c) What are some of the importance of marriage as a social	
(Learner	institution in Ghana?	
and	d) Identify five causes of broken marriages.	
Teacher)	e) Suggest any five ways of sustaining marriages in Ghana.	

PLC Session 10: Supporting the Teaching of the Creative Arts at the Right Level Using Literacy

T	Cuidance notes on Loading		Time in
Focus: the	Guidance notes on Leading	Guidance Notes on Teacher	Time in
bullet points	the session. What the PLC	Activity during the PLC	session
provide the	Coordinator will have to say	Session. What teachers will	
frame for what	during each stage of the	do during each stage of the	
is to be done in	session.	session.	
the session. The			
writer should			
use the bullets			
to guide what			
they write for			
the PLC			
Coordinators			
and teachers to			
do and say			
during each			
session. Each			
bullet needs to			
be addressed			
1. Introduction	1.1 Start the PLC session by asking teachers to share what they did differently in the classroom or elsewhere based on PLC session 9 on Supporting the teaching of Social Studies at the right level (OWOP) using literacy which they think impacted learning positively.	1.1 Share what you did differently in the classroom or elsewhere based on PLC session 9 on Supporting the teaching of Social Studies at the right level (OWOP) using literacy which you think impacted learning positively.	20mins
	1.2 Ask teachers to discuss and summarise in a single sentence why they think what their colleague did by using what they learned in Session 9, on Supporting the teaching of Social Studies at the right level (OWOP) using literacy, supported learning.	1.2 Discuss and summarise in a single sentence why you think what your colleague did by using what they learned in Session 9, on Supporting the teaching of Social Studies at the right level (OWOP) using literacy, supported learning.	
2. Planning for	2.1 Introduce the session by	2.1 Read and explain the	10mins
teaching,	asking a teacher to read and	purpose, learning outcome	
learning and	explain the purpose, learning	(LO) and learning indicators	
assessment	outcome (LO) and learning	(LIS)	
activities,	indicators (LIs)		

making links
with the PreTertiary
(standardsbased)
Curriculum and
using GESI, SEL,
ICT and 21st
century skills

Purpose:

The main purpose of this session is to support teachers in the teaching and learning of the creative arts at the right level using literacy.

LO: Demonstrate knowledge, understanding and application of how literacy supports the teaching, learning and assessment at the right level in creative arts (NTS 2c, 3i and 3p).

LI 1 Identify and discuss at least three literacy strategies that support the teaching and learning at the right level in creative arts.

LI 2 Outline at least three assessment strategies of literacy used in assessing creative arts at the right level.

2.1 Ask teachers in pairs/ groups to identify and discuss at least three literacy strategies that support the teaching and learning at the right level in creative arts (NTS 3e, 3f and 3g). *E.g.*

- a) Guided composition:
 Learners are given text
 and asked to perform or
 dramatize the content in
 groups or individually
- b) Singing: Learners are given a text and guided to create songs

Purpose:

The main purpose of this session is to support teachers in the teaching and learning of the creative arts at the right level using literacy.

LO: Demonstrate knowledge, understanding and application of how literacy supports the teaching, learning and assessment at the right level in creative arts (NTS 2c, 3i and 3p).

LI 1 Identify and discuss at least three literacy strategies that support the teaching and learning at the right level in creative arts.

LI 2 Outline at least three assessment strategies of literacy used in assessing creative arts at the right level.

2.1 In pairs/ groups identify and discuss at least three literacy strategies that support the teaching and learning at the right level in creative arts (NTS 3e, 3f and 3g).

E.g.

Guided composition:
Learners are given text
and asked to perform
or dramatize the
content in groups or
individually, etc.

- c) Story-telling: Learners are given a story to draw the characters in the story
- d) Role-play/Pick and Act: Learners are provided with a text and asked to role-play or act, etc.
- 2.2 Ask teachers in pairs/groups to outline at least three assessment strategies in literacy used in assessing creative arts at the right level (NTS 3i, 3j, 3k, 3l, 3m and 3n).

E.g.

- a) Matching: A test consisting of two sets of items to be matched with each other
- b) Writing composition:
 Learners are given text to
 create or compose a
 pictorial image(s) from
 the text
- c) Pick and Act: Learners are given words or sentences to "pick and act"
- d) Fishbowl game: A game where learners fish out text from a bowl and identify its corresponding image/item, etc.

2.2 In pairs/groups outline at least three assessment strategies in literacy used in assessing creative arts at the right level (NTS 3i, 3j, 3k, 3l, 3m and 3n).

E.g.

Fishbowl game: A game where learners fish out text from a bowl and identify its corresponding image/item, etc.

	Refer to Appendix 10.1 for a	Refer to Appendix 10.1 for	10 mins
	sample lesson plan in Creative	a sample lesson plan in	
	Arts for Basic 1 (KG1 – B6	Creative Arts for Basic 1	
	teachers) and Appendix 10.2	(KG1 – B6 teachers) and	
	for a sample lesson plan in	Appendix 10.2 for a sample	
	Creative Arts and Design for	lesson plan in Creative Arts	
	Basic 7 (B7- B9 teachers).	and Design for Basic 7 (B7-	
		B9 teachers).	
	2.3 Ask teachers to indicate	2.3 Indicate how the lesson	
	how the lesson will be	will be assessed using	
	assessed using assessment as,	assessment as, assessment	
	assessment for and	for and assessment of	
	assessment of learning	learning activities (NTS 3h,	
	activities (NTS 3h, 3k, 3l,	3k, 3l, 3m,3n and 3p).	
	3m,3n and 3p).		
	E.g.	E.g.	
a) Discussion		Discussion (assessment	
	(assessment as/for)	as/for)	
	b) Tracing (assessment		
	as/of)		
	c) Sketching (assessment		
	as/of), etc.		
3. Modelling a	3.1 Ask a teacher to model a	3.1 Model a teaching	15mins
teaching	teaching activity in the	activity in the sample	
activity, making	sample lesson plan for	lesson plan for feedback	
links with the	feedback from their	from your colleagues taking	
Pre-Tertiary	colleagues taking into	into consideration GESI, SEL	
(standards-	consideration GESI, SEL ICT	ICT and 21 st century skills	
based)	and 21 st century skills (NTS	(NTS 3a,3b, 3c, 3e,3f, 3g,	
Curriculum and	3a,3b, 3c, 3e,3f, 3g, 3h, 3i and	3h, 3i and 3j).	
using GESI, SEL,	3j).		
ICT and 21st			
century skills	3.2 Ask teachers to provide	3.2 Provide feedback on	
	feedback on the modelled	the modelled lesson (NTS	
	lesson (NTS 1a, 2c, 3k and 3l).	1a, 2c, 3k and 3l).	

4. Evaluation 4.		4.1 Ask teachers to reflect	4.1 Reflect individually and	5 mins
an	and review of individually and write what		write what you have	
ses	ssion:	they have learned in the	learned in the session and	
		session and share with the	share with the larger group	
		larger group (NTS 1a and 1b).	(NTS 1a and 1b).	
0	Noting that			
	teachers	4.2 Remind teachers to,	4.2 Where appropriate,	
	need to	where appropriate, identify a	identify a colleague to	
	identify	colleague to observe them	observe your lessons in	
	critical	while they teach their lesson	relation to PLC Session 10	
	friends to	in relation to PLC Session 10	and provide feedback to	
	observe	and provide feedback to them	you (NTS 3I).	
	lessons and	(NTS 3I).		
	report at			
	next session	4.3 Remind teachers to read	4.3 Read Session 11 of the	
		Session 11 of the PLC	PLC Handbook in	
		Handbook in preparation for	preparation for the next	
		the next PLC session (NTS 3a).	PLC session (NTS 3a).	

Appendix 10.1

Sample lesson plan in Creative Arts (Basic 1).

An example of an outline for teaching Thinking and Exploring Ideas from the Standards-based Curriculum

DAILY LESSON NOTES

BASIC: 1 WEEK:	Na	me of School: HAMILE T.I D/A	PRIMARY SCHOOL	
Date:		Strand: Visual Arts		
Day:				
Class: B 1		Sub-Strand: Thinking and ex	oloring ideas	
Content Standard: B1.	1.1.1:	Indicators: B1.1.1.1.1: Think	about the people who	
Demonstrate the abili	ty to generate	live in the local community a	nd describe what you	
own ideas for artistic	expressions on	know about their history and	d their culture or way	
the people, their histo	ry, their culture,	of life.		
the environment and t	•	Performance Indicator:		
national/global issues	national/global issues		Sketch and make artworks that reflect the history	
		of the local people and their	culture	
Core Competence: Collaboration and co		ommunication, critical thinking	g and problem solving	
Values: Decision maki	ng, tolerance and	l respect		
KEY WORDS: palace, chief				
PHASE/DURATION	LEARNERS ACTIVITIES		RESOURCES	
PHASE 1:	Learners sing or recite a familiar song or			
STARTER 10 MINS	rhyme with actions to liven up the cl			
(Preparing the Brain	for the lesso	n		
for Learning)				

PHASE 2: MAIN 40MINS (New Learning Including Assessment)	 i. A visit to the chief's palace for a historical talk about the history and culture of the local people ii. Teacher leads a whole discussion on what learners learned iii. A short video on any traditional event within the locality is played for learner to watch (https://youtu.be/aTPIJux6XKc) iv. In pairs/groups, learners share the message in the video they watched 	Pre-recorded videos, Pictures/videos of historical sites, chief's palace, ancestral homes, artworks, Migration map etc.
	ASSESSMENT: Learners display their sketches generated from own ideas that reflect the history and culture of the local people. i. Level 1 Tracing: Learners trace historical pictures of the local people ii. Level 2 Still-sketching: Learners sketch historical artwork placed before them iii. Level 3 Imaginative sketching: Learners sketch historical artwork generated from their own imagination	
PHASE 3: REFLECTION 10MINS (Learner and Teacher)	Have learners discuss: 1. Their impressions about the lesson. 2. What other things they want to know about the people INDEPENDENT ACTIVITY: Have learners undertake the following in preparation for the next lesson. i. Refine their sketches based on their ideas ii. Identify the suitable but appropriate media and method to use for their works	

Appendix 10.2

Sample lesson plan in Creative Arts (Basic 7).

KEY WORDS: Media, techniques, modelling,

realia, equipment, still-life, pattern making

An example of an outline for teaching Thinking and Exploring Ideas from the Standards-based Curriculum

DAILY LESSON NOTES

BASIC 7 WEEK: N	ame of School: BUSIGYA D/A JHS
DATE: DAY: CLASS: B 7	STRAND: Creative Arts SUB-STRAND: Media and Techniques
CONTENT STANDARD: B7. 2.1.1. Visual Arts Demonstrate understanding of relevant Visual Arts media and techniques and their application in still-life drawing, pattern making and modelling.	 INDICATORS: B7 2.1.1.1. Identify and determine the nature and uses of tools, materials and techniques needed for still-life drawing and shading, pattern making and modelling. PERFORMANCE INDICATOR: a) Identifying and discussing basic shapes such as the cube, cone and sphere and determine their nature b) Discussing and determining what makes an object 3D rather than 2D, such as the width, length and depth and the formation of light and shadow on the object. c) Observing and discussing the effect of light on an object and how to apply it in drawing and shading in tones. d) Identifying techniques in stilllife drawing and shading using a variety of media. e) Practicing the techniques used in drawing and
CORE COMPETENCE: Collaboration ar	shading still-life object. nd Communication, Critical Thinking and Problem
Solving	,
VALUES: Decision making, tolerance of	and respect

REFERENCE: MOE (2019) Teachers Resource

Pack for CAD, p 42-43

PHASE/DURATION	LEARNERS ACTIVITIES	RESOURCES
PHASE 1:	i. Show a 5-minute video/	Online resource: Shading
STARTER 10 MINS	realia/ pictures on	techniques
(Preparing the Brain	techniques in still-life	https://www.youtube.com/
for Learning)	drawing and shading	watch?v=tGx4sypoPjY
	ii. Learners answer questions to	
	motivate them on tools and	pencils, paper, charcoal
	materials for still-life	pencils, pastels, pens,
	drawing and shading.	cutters, crayon, etc.
PHASE 2: MAIN	i. Learners identify and discuss	3D and 2D objects
40MINS	basic shapes such as the cube,	
(New Learning	cone and sphere and determine	
Including	their nature	
Assessment)	ii. Learners observe and discuss the	
	effect of light on an object and	
	how to apply it in drawing and	
	shading in tones	
	iii. Learners thought-shower and reflect on techniques in still-life	
	drawing and shading. Examples:	
	hatching, cross-hatching,	
	smoothing and stippling	
	iv. Learners identify the skills in	
	creating still-life drawing and	
	some techniques in shading.	
	v. Learners practice the techniques	
	used in drawing and shading still-	
	life object	
	ASSESSMENT:	
	Learners display their sketches	
	generated from own ideas that reflect	
	the history and culture of the local	
	people.	
	i. Level 1	
	Tracing: learners trace historical	
	pictures of the local people	
	ii. Level 2	
	Still-sketching: learners sketch	
	historical artwork placed before	
	them	
	iii. Level 3	
	Imaginative sketching: learners	
	sketch historical artwork	
	generated from their own	
	imagination	

PHASE 3:	Learners display artworks for	
REFLECTION	reflection, and use appropriate	
10MINS	language to give supportive and	
(Learner and	informative peer and self-evaluation.	
Teacher)	Example: "The work used the stippling	
	technique to achieve a range of tones".	

PLC Session 11: Supporting the Teaching of Literacy at the Right Level in the Creative Arts

	III the Creative Arts		1
Focus: the	Guidance notes on Leading	Guidance Notes on Teacher	Time in
bullet points	the session. What the PLC	Activity during the PLC	session
provide the	Coordinator will have to say	Session. What teachers will	
frame for what	during each stage of the	do during each stage of the	
is to be done in	session.	session.	
the session. The			
writer should			
use the bullets			
to guide what			
they write for			
the PLC			
Coordinators			
and teachers to			
do and say			
during each			
session. Each			
bullet needs to			
be addressed			
1. Introduction	1.1 Start the PLC session by asking teachers to share what they did differently in the classroom or elsewhere based on PLC Session 10, on supporting the teaching of the creative arts at the right level using literacy, which they think impacted learning positively.	1.1 Share what you did differently in the classroom or elsewhere based on PLC Session 10, on supporting the teaching of the creative arts at the right level using literacy, which you think impacted learning positively.	20mins
	1.2 Ask teachers to discuss and summarise in a single sentence why they think what their colleague did by using what they learned in Session 10, on supporting the teaching of the creative arts at the right level in literacy, supported learning.	1.2 Discuss and summarise in a single sentence why you think what your colleague did by using what you learned in Session 10, on supporting the teaching of the creative arts at the right level in literacy, supported learning.	
2. Planning for	2.1 Introduce the session by	2.1 Read and explain the	10 mins
teaching,	asking a teacher to read and	purpose, learning outcome	
learning and	explain the purpose, learning	(LO) and learning indicators	
assessment	outcome (LO) and learning	(LIs).	
activities,	indicators (LIs).		
making links			
	I .	I .	1

with the Pre-Tertiary (standardsbased) Curriculum and using GESI, SEL, ICT and 21st century skills

Purpose:

The purpose of this session is to support teachers on the teaching and learning of literacy at the right level using creative arts. It also aims at broadening teachers' knowledge on teaching and learning resources that can be used to facilitate the teaching and learning of literacy.

LO: Demonstrate knowledge, understanding and application of how the creative arts can be applied to support the teaching and learning of literacy at the right level (NTS 2a, 2c, 2f, 3e, 3f, 3h, 3i and 3j).

LI 1 Identify at least four creative arts materials that can be used to support the teaching and learning at the right level in literacy.
LI 2 Describe how the creative arts materials can be used to support the teaching and learning of literacy.

2.1 Ask teachers in pairs/groups to describe at least four creative arts materials that can be used to support the teaching and learning of literacy (NTS 3e, 3f, 3g, 3i and 3j). *E.g.*

a) Clay is used to mould letters of the alphabet and objects depicting sounds of the letters

Purpose:

The purpose of this session is to support teachers on the teaching and learning of literacy at the right level using creative arts. It also aims at broadening teachers' knowledge on teaching and learning resources that can be used to facilitate the teaching and learning of literacy.

- LO: Demonstrate knowledge, understanding and application of how the creative arts can be applied to support the teaching and learning of literacy at the right level (NTS 2a, 2c, 2f, 3e, 3f, 3h, 3i and 3j).
- LI 1 Identify at least four creative arts materials that can be used to support the teaching and learning at the right level in literacy.
 LI 2 Describe how the creative arts materials can be used to support the teaching and learning of literacy.
- 2.1 In pairs/groups describe at least four creative arts materials that can be used to support the teaching and learning of literacy (NTS 3e, 3f, 3g, 3i and 3j).

E.g.
Clay is used to mould
letters of the alphabet
and objects depicting
sounds of the letters, etc.

	b) Feather is used to teach starters tripod grip. This helps to develop the fine motor skills c) Poster/Portrait is given to learners to create or write a composition from it d) Graphics are given to learners to read and gather facts for creative		
	writing, etc. Refer to Appendix 11.1 for a sample lesson plan in Creative Arts and Design for Basic 7 (for B7 – B9 teachers) and Appendix 11.2 for a sample lesson plan in Creative Arts for Basic 3 (for B1- B3 teachers).	Refer to Appendix 11.1 for a sample lesson plan in Creative Arts and Design for Basic 7. (for B7 – B9 teachers) and Appendix 11.2 for a sample lesson plan in Creative Arts for Basic 3 (for B1- B3 teachers).	10 mins
	2.3 Ask teachers to indicate how the lesson will be taught using appropriate pedagogies and assessment methods for teaching at the right level (NTS 1a, 1b, 3a, 3e, 3i, 3j, 3k, 3l, 3m and 3p). E.g. a) Creating artifacts — assessed through observation b) Exploration — assessed through assignment c) Description — assessed though the use of a mark(ing) scheme d) Drawing — assessed by a jury e) Moulding — assessed through observation, etc.	2.3 Indicate how the lesson will be taught using appropriate pedagogies and assessment methods for teaching at the right level (NTS 1a, 1b, 3a, 3e, 3i, 3j, 3k, 3l, 3m and 3p). E.g. Creating artifacts — assessed through observation	
3. Modelling a teaching activity, making links with the	3.1 Ask a teacher to model a teaching activity in the sample lesson plan for feedback from their	3.1 Model a teaching activity in the sample lesson plan for feedback from your colleagues taking	15mins

F=		[1
Pre-Tertiary	colleagues taking into	into consideration GESI,	
(standards-	consideration GESI, SEL, ICT	SEL, ICT and 21st century	
based)	and 21st century skills (NTS 2f,	skills (NTS 2f, 3a, 3c, 3d, 3e,	
Curriculum and	3a, 3c, 3d, 3e, 3f, 3g, 3h, 3i,	3f, 3g, 3h, 3i, 3k, 3l and 3p).	
using GESI, SEL,	3k, 3l and 3p).		
ICT and 21st			
century skills	3.2 Ask teachers to provide	3.2 Provide feedback on the	
	feedback on the modelled	modelled lesson (NTS 3f, 3l	
	lesson (NTS 3f, 3l and 3n).	and 3n).	
4. Evaluation	4.1 Ask teachers to reflect	4.1 Reflect individually and	5 mins
and review of	individually and write what	write what you have	
session:	they have learned in the	learned in the session and	
	session and share with the	share with the larger group	
	larger group (NTS 1a, 1b and	(NTS 1a, 1b and 1e).	
 Noting that 	1e).		
teachers			
need to	4.2 Remind teachers to,	4.2 Where appropriate,	
identify	where appropriate, identify a	identify a colleague to	
critical	colleague to observe them	observe your lessons in	
friends to	while they teach their lesson	relation to PLC Session 11	
observe	in relation to PLC Session 11	and provide feedback to	
lessons and	and provide feedback to them	you (NTS 1a, 1b, 1e ,3l and	
report at	(NTS 1a, 1b, 1e, 3l and 3n).	3n).	
next session			

Appendix 11.1

Sample lesson plan in creative arts (Basic 7).

An example of an outline for teaching Design in Nature and the Man-made Environment from the Standards-based Curriculum

DAILY LESSON NOTES

Basic: 7 Week: Nam	e of School : KANGUOL R/C JHS	
DATE:	STRAND: DESIGN	
DAY: CLASS: B 7	SUB-STRAND : Design in Nature and the Manmade Environment	
CONTENT STANDARD: B7. 1.1.1: Demonstrate understanding of design as a concept in relation to the elements and principles of design and as a medium for creative expression of design in nature and the man-made environment	 INDICATORS: B7 1.1.1.2: Research to identify and record what constitutes the 'elements of design' in nature and as building blocks for composition and creative expression of ideas. PERFORMANCE INDICATOR: Identifying and describing the elements of design found in their immediate environment. Classifying identified elements of design by source as natural or man-made. Applying available tools and materials to create elements of design that reflect those found in nature and the man-made environment. Applying knowledge and skills in creating elements of design in a sustainable manner 	
CORE COMPETENCE : Collaboration and Communication, Critical thinking and problem solving, Creativity and innovation		
VALUES: Decision making, tolerance and	T .	
KEY WORDS : Dot, line, shape, texture, colour, value, form, space, and perspective.	REFERENCE: MOE (2019) Creative Arts and Design Resource Pack, p. 32	

PHASE/ DURATION	LEARNERS ACTIVITIES	RESOURCES
PHASE 1: STARTER 10 MINS (Preparing the Brain for Learning)	Learners describe the elements of design found in the natural environment Natural Elements Line Dot Texture	
PHASE 2: MAIN 40MINS (New Learning Including Assessment)	 i. Treat keywords with the learners. ii. Learners watch video on natural environment and think of the possible tools, materials and equipment used in designing (https://www.youtube.com/watch?v=fFCnQnpFYRM) iii. In groups, discuss how to apply the tools, materials and equipment in making elements of design from nature (e.g., Eye as Dot, Tail as Line, etc.). iv. Apply knowledge and skills acquired in making elements of design from nature. ASSESSMENT: i. Learners are given differentiated tasks to practice drawing, modelling and creating an artifact using different tools to create various techniques in making elements of design. ii. Learners explore their immediate environment to identify elements of design from both man-made and natural settings. 	Pencils, paper, charcoal, pastel, crayon, scissors, brushes, etc.
PHASE 3: REFLECTION 10MINS (Learner and Teacher)	Learners talk about the steps involved in making elements of design from both natural and man-made environments in a sustainable manner with peers for feedback.	

Appendix 11.2

Sample lesson plan in creative arts (Basic 3).

An example of an outline for teaching Displaying and Sharing through Exhibition and Performance from the Standards-based Curriculum

DAILY LESSON NOTES

Basic: 3 Weel	k: Nan	ne of Scho	ool: KORO D/A PRIMARY	SCHOOL
DATE:		STRAND: PERFORMING ARTS		
DAY: CLASS: B 3		SUB-STRAND: Displaying and Sharing through Exhibition and Performance		
CONTENT STANDARD: B3.2.3.5: Demonstrate the ability to display present artworks that share own knowledge, concepts, ideas and experiences with audience through display/presentation; and using senses/manual/digital applications		INDICATORS: B3.2.3.5.1 Perform own music, dance and drama to share creative experiences on performances that reflect the history and way of life of people in other African cultures PERFORMANCE INDICATOR: Plan, display and share ideas through compositions and performances that reflect the		
where necessary, to record for reporting on the event		history of the local people, their culture, the environment and topical local/national/global issues		
CORE COMPETENCE: Collaboration and Communication, Critical thinking and problem solving, Creativity and innovation VALUES: Decision making, tolerance and respect.				
KEY WORDS: choreograph, movement p		patterns	terns REFERENCE: MOE (2019) Creative Arts and Design Resource Pack, p. 187-188	
PHASE/DURATION LEARNERS ACTIVITIES		RESOURCES		
PHASE 1: STARTER 10 MINS (Preparing the Brain for Learning)	and Response ii. Call on a few to back iii. Pay special at have difficulty special attent iv. Use simple So E.g.: Teacher:	e individual tention to in singin ion on the ion of the	n - dren s - m	

PHASE 2: MAIN 40MINS (New Learning Including Assessment)	 i. Introduce learners to the lesson of the day by asking them to write down and mention the compositions they have made in music, dance and drama. For example. ii. Let them share one of their compositions as an ice-breaker and go on further to discuss the need for them to perform their compositions and other collections to the public. iii. Guide learners to: a) Select about two or three performances to share with the public. b) Suggest rehearsal days c) Identify costumes and props for the performances d) Let learners select a 3-member organisational committee to plan the event. e) Deciding on, the date for performance, who to invite: peers and teachers from other classes, parents and other stakeholders 	Costumes, Props, Musical instruments, etc.
	ASSESSMENT: Learners answer questions on: a) the performances selected b) the dates for rehearsal c) the date for the performance	
PHASE 3: REFLECTION 10MINS (Learner and Teacher)	Have learners discuss: express impressions about the performances selected What other things they think should be added to the performances. Assignment Have learners undertake the following in preparation for the next lesson. Selection of costumes, props, body extensions etc. Acquisition of drums and other musical instruments for the performance	