FIRST TERM WEEKLY LESSON PLAN – B7

WEEK I

Date:	Period: Subject: M		Subject: Mathematics	ct: Mathematics	
Duration:			Strand: Number		
Class: B7		Class Size:		Sub Strand: Numerat	ion Systems
Content Standard: B7.1.1.1 Demonstrate understanding and the place value for expressing quantities recorded base ten numerals as well as rounding to a given decimal place and significant figures.		orded as	Indicator:		Lesson: I of 5
Performance Indicator: Learners can use names to d	ount numbe	ers up to 1,000),000,000	Core Competencies CP, CC	:
References: Mathematics C	Curriculum F	Pg.2			
Keywords: denomination,	combinati	on			
Phase/Duration PHASE I: STARTER	Learners			ard and backwards,	Resources
PHASE 2: NEW	read and write number names of number quantities and vice versa, addition and subtraction of numbers. Share with learners the performance indicators.				Counters, bundle
LEARNING	ten mater cubes is a and 10 fla Learners represent E.g. 5,560 5,560 Let learne	Guide learners to form numbers with given multi-base ten materials, given that a small cube is 1,000; 10 small cubes is a rod (i.e. 10,000), 10 rods is a flat (i.e. 100,000); and 10 flats is a block (i.e. 1000,000) Learners to use multiples of 10s, 50s, 100s and 200s to represent numbers in multiples of ways E.g. $5,560 = 20 \times 200 + 10 \times 100 + 11 \times 50 + 1 \times 10$; or $5,560 = 15 \times 200 + 20 \times 100 + 10 \times 50 + 6 \times 10$; etc. Let learners use tokens (or paper-made currency notes)			and loose straws base ten cut square, Bundle of sticks
	such as GHC20, GHC50, GHC100 and GHC200 to work out how many of each denomination would be required to model given amount up to one billion. i. Workout how many GHC200 will make GHC185, 000,000, GHC1,890,750,000, etc.				

	ii. Determine combinations of GH¢50, GH¢100 or GH¢200 notes that make GH¢1,000,000 (make sure each denomination is used
	Assessment I. Model the following numbers with multi-base ten materials or graph sheet: a. 150,000 b. 485,000
	2. Write these numbers using words a) 3,500 b) 17,100 c) 54,400
PHASE 3: REFLECTOIN	Engage learners to summarize the lesson outcomes.
	Ask learners how the lesson will benefit them in their daily lives.

Date:		Period: Subject: Mathematics			
Duration:			Strand: Number		
Class: B7		Class Size:		Sub Strand: Numerat	on Systems
Content Standard: B7.1.1.1 Demonstrate understanding and the use of place value for expressing quantities recorded as base ten numerals as well as rounding to a given decimal place and significant figures.		B7.1.1.2 Compare and order		Lesson: 2 of 5	
Performance Indicator: Learners can use <, > and = 1,000,000,000	to compare	e numbers up t	to	Core Competencies CP, CC	
References: Mathematics	Curriculum I	Pg.2			
Keywords:					
Phase/Duration	Loarnors	Activities			Resources
PHASE I: STARTER	Recap with learners to count forward and backwards, read and write number names of number quantities and vice versa, addition and subtraction of numbers. Share with learners the performance indicators.				
PHASE 2: NEW LEARNING	ldentify no than or let 1,295,800 1,295,300 Use phra "is less the "=" to cook it 1,300,8 it. 5,223, Assessment I. Compara 3,345 and b) 4,726 at c) 57,821 d) 209,48 d) 63,237	umbers whices than a give 0,000 is 500,0 0,000 is 500,0 sees such as "inan' as well as maner any two 350,700 I 487,637 5	h are for insten 8-digit or 100 more than 100 less than is equal to", is their symbolic wo numbers. 1300,850,700 less than 13,487,632 wing numbers)	Counters, bundle and loose straws base ten cut square, Bundle of sticks

PHASE 3:	Engage learners to summarize the lesson outcomes.	
REFLECTOIN		
	Ask learners how the lesson will benefit them in their	
	daily lives.	

Date: 28 TH JAN, 2022		Period: Subject: Mathematics			:s	
Duration:	Strand:			d: Number		
Class: B7		Class Size:		Sub Str	and: Numera	tion Systems
Content Standard: B7.I.I.I Demonstrate understanding and the use of place value for expressing quantities recorded as base ten numerals as well as rounding to a given decimal place and significant figures.			B7.1.1.3 Round (off, up, down)		Lesson: 3 of 5	
Performance Indicator:				Core Co	ompetencies	s:
Learners can round (off, up				CP, CC		
References: Mathematics						
Keywords: round up" ar	d "round do	own				
Phase/Duration	Learners	Activities				Resources
PHASE I: STARTER	about rou	Recap with learners to find out what they already know about rounding off and significant figures. Share with learners the performance indicators.				
PHASE 2: NEW LEARNING	over 1,00 thousand For exami. hundren to ii. ten the nearer to When rowhile who of the two The table concept. 2,846,655 To the nearer	est thousand	to the neas ands, tho 53 to the lis 1,900,0 than 1,800,880,000 s than 1,870 cplain the consider down, we consider down, we	rest hundrusands, hunearest 1000 since 1,879 10,000. differences wn" concerthe large consider	red-indreds, etc ,879,653 is ,653 is between epts. ger number, the smalle	Bundle of sticks

1	Cuida las manas ta ava mass vibala numbana ta	
	Guide learners to express whole numbers to	
	significant figures	
	For example 857386321	
	i. five significant figures is 857390000	
	the fifth significant figure is 8 but the figure after it	
	(i.e. the 6 th significant figure) is 6 which is greater	
	than 5. Therefore we add I to 8 to give 9.	
	and 5. Therefore we ded 1 to 0 to 5.70 7.	
	ii. four significant figures is 857400000	
	the fourth significant figure is 3 but the figure after it	
	(i.e. the 5 th significant figure) is 8 which is greater	
	than 5. Therefore we add 1 to 3 to give 4	
	than 5. Therefore we add 1 to 5 to give 4	
	iii three significant figures is 95700000	
	iii. three significant figures is 85700000	
	the third significant figure is 7 but the figure after it	
	(i.e. the 4 th significant figure) is 3 which is less than 5.	
	Therefore we leave 7 as it is.	
	Assessment	
	1. correct 287530 to:	
	(a) 4 s.f. (b) 3 s.f. (c) 2 s.f. (d) 1 s.f.	
	Use peer discussion and effective questioning to find out	
REFLECTOIN	from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	
	All I di elli fed elle	
	Ask learners how the lesson will benefit them in their	
	daily lives.	

Date: 28 TH JAN, 2022		Period:		Subjec	t: Mathematic	s
Duration:				Strand	: Number	
Class: B7		Class Size:		Sub St	rand: Numerat	ion Systems
Content Standard: B7.I.I.I Demonstrate understanding and the use of place value for expressing quantities recorded as base ten numerals as well as rounding to a given decimal place and significant figures.			Indicator: B7.1.1.4 Round decimals to the nearest tenth, hundredth, thousandths, etc. Lesson: 4 of 5			Lesson: 4 of 5
Performance Indicator: Learners can Round decimal thousandths	s to the nea	rest tenth, hui	ndredth,	Core C	Competencies	:
References: Mathematics C	Curriculum F	Pg.2		•		
Keywords: tenth, hundredt	h, thousand	ths				
Phase/Duration	Learners	Activities				Resources
PHASE I: STARTER	Learners Activities Revise with learners on what was taught in the previous lesson. Share with learners the performance indicators.				TROOGUI COS	
PHASE 2: NEW LEARNING	Round (off, up and down) decimals to the nearest tenths, hundredths, thousandths For example: Round 486.3685 as indicated in the table below				Counters, bundle and loose straws base ten cut square, Bundle of sticks	
	Round to the nearest tenths hundredths Round to the nearest thousandths 486.3685 486.4 486.37 486.369					
	0.0605368	3 0.1	0.06		0.061	
	i. to the nearest whole number is 486. Discard figures after decimal point if the figure immediately after the decimal point is less than 5. If the figure is 5 or more more, add I to the whole number. ii. to the nearest tenth (i.e. I d.p.) is 486.4 iii. to the nearest hundredth (i.e. 2 d.p.) is 486.37 iii. to the nearest thousandth (i.e. 3 d.p.) is 486.369 Assessment Round the following numbers to the nearest i. tenth ii. Hundredth iii. Thousandth a. 14.526 b. 78.460 b. 478.036 d. 1.23564					

REFLECTOIN from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.	PHASE 3:	Use peer discussion and effective questioning to find out	I
Take feedback from learners and summarize the lesson.	REFLECTOIN	from learners what they have learnt during the lesson.	1
		Take feedback from learners and summarize the lesson.	
Ask learners how the lesson will benefit them in their daily lives.			

Date: 4 TH FEB, 2022		Period:		Subject: Mathematics	
Duration:				Strand: Number	
Class: B7		Class Size:		Sub Strand: Numera	tion Systems
Content Standard: B7.1.1.1 Demonstrate understanding and the use of place value for expressing quantities recorded as base ten numerals as well as rounding these to given decimal places and significant figures		B7.1.1.1.5 Express decimal		Lesson: 5 of 5	
Performance Indicator: Learners can correct numer places	als to given	significant and	decimal	Core Competencies: CP, CC	
References: Mathematics (Curriculum F	Pg.4			
Keywords: significant figu	re				
Phase/Duration PHASE I: STARTER	Learners				Resources
	Revise with learners on what was taught in the previous lesson. Share with learners the performance indicators.				
PHASE 2: NEW LEARNING	zero (0) A zero is s Example: i. 0.360 = 0. The 0 ii. 7.021 after the Guide lessignifican Example: 1) 0.0023 ii. 3sf = 0 iii. 4sf = 0	is significant is significant when is significant when is the significant the father the father the 2nd arners to continuous figures. 34567 34567 3002346 0.002346 0.002346 0.002346	t in a decimal in it follows a cant number is the 3 rd signant number significant r	non-zero figure. Tin 0.360 is 3 but not gnificant figure. Trin 7.021 is 7. The 0	

	Guide learners to express decimal numbers to a
	given number of decimal places.
	Example:
	(i) 745.9674
	(3 d.p.) – 745.967
	(2 d.p.) – 745.97
	(1 d.p.) – 746.0
	(1 4.6.7)
	ii. Musa measured the length of his teacher's table
	and corrected his measurement to 2 decimal places
	as 0.76m. State the possible actual readings Musa
	might have obtained.
	might have obtained.
	Engago learners to investigate similar problems on
	Engage learners to investigate similar problems on
	significant figures.
	A
	Assessment
	Correct the following numbers to
	i) 4 ii) 3 iii) 2 iv) I
	\
	a) 17300 e) 20023 b) 0.423568 f) 23354204 c) 0.651234 g) 2785469
	b) 0.423568 f) 23354204
	c) 0.651234 g) 2785469
	d) 46.10214 h) 0.60080107
PHASE 3:	Use peer discussion and effective questioning to find out
REFLECTION	from learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.
	Ask learners how the lesson will benefit them in their
	daily lives.
	daily lives.

Date: 4 TH FEB, 2022	4 TH FEB, 2022 Period: Subject: Mathematics			S
Duration:	Duration: Strand: Number			
Class: B7	Class Size: Sub Strand: Number 0			Operations
and number properties used to solve numbers by p			y and divide given ers of 10 including chmark fractions	Lesson: I OF 3
Performance Indicator: Learners can multiply and of 10	divide given num	bers by powers	Core Competencies CP, CC	:
References: Mathematics C	Curriculum Pg.7			
Keywords: decimal point,	benchmark			
Phono/Duration	Loons and A seint	·ioo		Dagourges
Phase/Duration PHASE I: STARTER	Learners Activit			Resources
PHASE 2: NEW LEARNING	List the first to books. Call on pupils multiples, and (Answers: 15, Share the perfetesson. Have learners and related div	one at a time to glist their answers 30, 45, 60, 75) ormance indicato recall multiplicativision facts.	give one of the on the board. rs and introduce the on facts up to 144	Multiplication chart, place value chart, abacus
	benchmark fra percentages (a Learners to fin number when Example: decir decimal point. E.g. 4.91 x 12 First 291 x 12 There are thre numbers.	nd the product of it is multiplied. mals are multiplied = 5892 ee decimal places	to decimals or	

	Assessment Evaluate the following 1. 9.31 × 1.0 2. 0.56 × 10 3. 0.02 × 0.08 4. 3.566 × 0.005	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Date: II TH FEB, 2022	Day:		Subject: Mathematics		
Duration: 45mins		Strar		Strand: Number	
Class: B7	Class Size:		ze:	Sub Strand: Number	Operations
Content Standard: B7.1.2.1 Apply mental math number properties used to				mental mathematics umber properties used ulations	Lesson: 2 of 3
Performance Indicator: Learners can apply mental problems.	mathematics s	strategies i	n solving math	Core Competencies CP, CC	:
References: Mathematics	Curriculum F	Pg.7			
Keywords: mental, strates	gies				
Phase/Duration	Lasunaus	A stivition			Dagayyaga
Phase/Duration PHASE I: STARTER	Learners Revise wi			taught in the previous	Resources
TITASE I. STANTEN	lesson.	cii icai iici	S OII WILL WAS	Laught in the previous	
	Share wit	h learners	s the performan	ce indicators.	
PHASE 2: NEW LEARNING	technique numbers i. 28 x 5 ii. 125 x Have lead involving Example: In mathem changing result. If a and but Then we commutate. g. 2 x 3 Guide lead determine Example: i. 7 x 15,	es to det the properties are ratio are ratio $x = 3 \times 2$ arners to the properties are ratio $x = 3 \times 2$	termine the pro- $4 \times 10 = 140$ $(125 \times 2) \times 2 = 100$ solve mathematics of operations of operations of the operand on all numbers are polication of rations of the oduct of two graphs and the polication of the oduct of two graphs are polications of two graphs are polications of the oduct of two graphs are polications	ations. perty. In is commutative if It is does not change the It is do	Counters, bundle and loose straws base ten cut square, Bundle of sticks

	a) 68 x 50 e) 95 x 13 b) 98 x 38 f) 27 x 19 c) 62 x 11 g) 88 x 14 d) 83 x 43 h) 93 x 65
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.

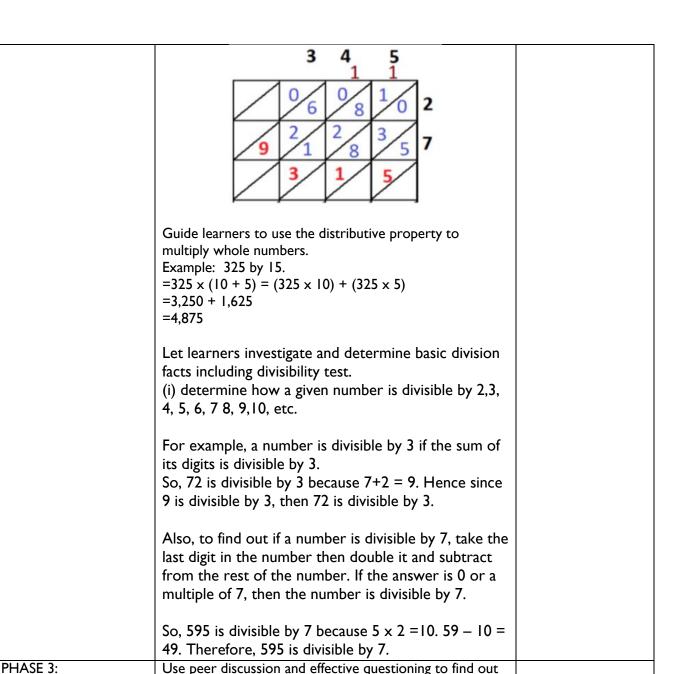
Date: II TH FEB, 2022	Period:		d:	Subject: Mathematics	
Duration: 100mins		Strand: Number			
Class: B7		Class	lass Size: Sub Strand: Number O		Operations
Content Standard: B7.1.2.1 Apply mental mathe and number properties used problems		egies	Indicator: B7.1.2.1.3 Apply r strategies to solve	•	Lesson: 3 of 3
Performance Indicator: Learners can solve word pro	oblems			Core Competencies: CP, CC	
References: Mathematics (g.7		3., 33	
Keywords: mental, strateg	ies				
Phase/Duration	Learners A				Resources
PHASE I: STARTER	lesson.		ners on what was t	caught in the previous	
PHASE 2: NEW LEARNING	addition usincrease at E.g. I. what E.g. 2. Add E.g. 3. calconduction I.g. 4. Increase at the subtraction take, from the subtraction take, from the subtraction take, I.g. I. what E.g. 2. from E.g. 3. find E.g. 4. what Guide lear	using variations a numer to see the second using the contract of the contract	the sum of the form of the sum of the form of the sum of	dd, calculate the sum he total; = 180 s; 45, 10 and 57 ollowing numbers; egies to perform nus, from a number that must be added to and 158. 2 to make 574.	base ten cut square, Bundle of sticks

	the product, square, and what must be divided by to give; Guide learners use mental strategies to perform division using words like divide, share, how many times does it go into? and what must be multiplied by to give			
	 Assessment I. How many 40's must be added together to get a sum equal to 240? 2. Lucy went to the grocery store. She bought 12 packs of cookies and 16 packs of noodles. How many packs of groceries did she buy in all? 3. Multiply 96358 by 524 			
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.			

Pate: 18 th FEB, 2022 Period:			Subject: Mathematics		
Duration:	1	Strand: N		lumber	
Class: B7	Class Size	e:	Sub Strand: Number	· Operations	
B.7.1.2.2 Demonstrate and subtraction, multiplication numbers, and (ii) decimal reproblems.	and division of (i) whole	B7.1.2.2.1	Add and subtract up git numbers.	Lesson:	
Performance Indicator:			Core Competencies		
Learners can add and subt	·	oers	CP, CC		
References: Mathematics					
Keywords: mental, strate	gies				
Phase/Duration	Learners Activities			Resources	
PHASE I: STARTER	Revise with learners lesson.	Revise with learners on what was taught in the previous			
PHASE 2: NEW LEARNING	ii) Add 327.6 and 5 327.60 = 300 + + 54.13 = 381.73 = 300 + Guide learners to	lue system to 42 $700+80+5$ $+300+40+2$ $1000+120+7$ 54.13 $20+7+\frac{6}{10}$ $50+4+\frac{1}{10}$ $70+11+\frac{7}{10}$ use partition	$+ \frac{0}{100} + \frac{3}{100} + \frac{3}{100}$	Counters, bundle and loose straws base ten cut square, Bundle of sticks	

	iii) Subtract 7.85 from 93.6					
	$93.60 = 90 + 3 + \frac{6}{10} + \frac{0}{100}$					
	$7.85 = 7 + \frac{8}{10} + \frac{0}{100}$					
	$85.75 = 80 + 5 + \frac{75}{100}$					
	Guide learners to practice with more examples.					
	Assessment					
	Solve for the following					
	1) 4.13 and 2.13					
	2) 785 and 9,342					
	3) 327.6 and 54.13					
PHASE 3:	Use peer discussion and effective questioning to find out					
REFLECTION	from learners what they have learnt during the lesson.					
	Take feedback from learners and summarize the lesson.					

Date: 18 th FEB, 2022	Period:			Subject: Mathematics	S	
Duration:				Strand: Number		
Class: B7		Class Size:		Sub Strand: Number	· Operations	
Content Standard: B.7.1.2.2 Demonstrate an understanding of subtraction, multiplication and division of numbers, and (ii) decimal numbers, to sol problems		of (i) whole		Multiply or divide numbers by 1- and mbers.	Lesson:	
Performance Indicator:				Core Competencies	:	
Learners can multiply or d			S			
References: Mathematics		² g.10-11				
Keywords: mental, strateg	gies					
Phase/Duration	Learners	Activition			Posources	
PHASE I: STARTER			n what was	taught in the previous	Resources	
THE THE TANK IN	lesson.	Revise with learners on what was taught in the previous lesson. Share with learners the performance indicators.				
PHASE 2: NEW LEARNING	multiply Example: i) Multipl 584 = × 8 = 4.672 = Guide let vertical p i. Place v 345 x27 2,41. + 6,90 9,31.	Guide learners to use partitioning/expanded form to multiply and divide efficiently Example: i) Multiply 584 by 8 584 = 500 + 80 + 4 × 8 = 8 4,000 + 640 + 32 4,672 = 4,672 Guide learners to multiply whole numbers using the vertical place value method or lattice method: i. Place value method: 345 × 27 = 345			and loose straws base ten cut square, Bundle of sticks	



from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

REFLECTION

Date: 25 TH FEB, 2022	Period:		Subject: Mathematics		5
Duration:			Strand: Number		
Class: B7	Class S		ze: Sub Strand: Numbe		Operations
TOLD WHOLE HUMBERS AND ON DECIMAL HUMBERS. T		Indicator: B7.1.2.2.3. Create and solve story problems involving decimals on the four basic operations.		Lesson:	
Performance Indicator: Learners can create and so decimals	lve story pro	oblems i	involving	Core Competencies CP, CC	:
References: Mathematics C	Curriculum Pg	g. 13			
Keywords: mental, strategi	es, basic ope	erations,	decimals		
					_
Phase/Duration PHASE I: STARTER	Learners A		ended questions		Resources
PHASE 2: NEW	What are the words used for addition in maths? Allow learners to give their answers, and tell them any other answers. (Example answers: Sum, total, add, increase, altogether). Repeat this question for subtraction, multiplication and division. (Answer: Subtraction (subtract, takeaway, difference, reduce, decrease) Multiplication (Multiply, 'of', product) division (divide, quotient, share). Share performance indicators and introduce the lesson				Counters, bundle
LEARNING	Write and read the word problem on the board: Example: Abu's height is 1.5 m. and Foday's height is 1.3 m. What is their total height? Ask learners what can we to do to find the total height of the boys? (Answer: We add 1.5 m. and 1.3 m.) Ask learners: Why do you think we should add? (Answer: Because of the word total.) Guide learners to solve the word problem. $ \begin{array}{c} 1 & .5 \\ + \frac{1 & .3}{2 & .8} \end{array} $			and loose straws base ten cut square, Bundle of sticks	

Example: A group of two hundred and fifteen men and seven hundred and eighty-four women went to watch a musical concert. An amount of GH\$\pi\$25 was collected at the gate from each person. How much money was collected all together?

Give learners few minutes to solve the problem.

Call volunteer learners to board to present their answers. Encourage them to explain their answers.

Guide learners to solve word problems on data presented in a table

Example: In preparation towards an open day anniversary, a school's Management Committee approved the following budget on some projects.

Activity	Cost (GH¢)
Painting school building	4,580
Mending cracks on the basketball pitch	3,050
Restock the library with new books	2,690
Buying of choir robes	5,340
Buying prizes for awards	4,270

- (a) How much was approved for painting the school building and buying choir robes?
- (b) How much more was to be spent on mending the cracks on the basketball pitch than restocking the library with new books?
- (c) How much was spent on buying prizes for awards if twice the amount approved was spent on this activity?

Assessment

- (i)Ebo weighs 28.6kg. His father weighs four times as heavy. What is the total weight of Ebo and his father?
- (ii) Mrs Armah bought 45.75 metres of linen for her five children. If they share the material equally, how many metres of linen did each receive?
- (iii) Mrs Adamu bought 13.6kg of meat. Mrs Anderson bought 2.4kg of meat less than Mrs Adamu. How many kilograms of meat did they buy all together?

PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Date: 25 th FEB, 2022		Period:		Subject: Mathematics	
Duration:				Strand: Number	
Class: B7	Class Size:			Sub Strand: Number	Operations
Content Standard: B7.1.2.3 Demonstrate understanding and the use of powers of natural numbers in solving problems			examples the repeated fa	Illustrate with he meaning of actors using counting the as bottle tops or ks.	
Performance Indicator: Learners can the use of pow problems	vers of natur	ral numbers in	solving	Core Competencies CP, CC	:
References: Mathematics	Curriculum F	Pg. 13			
Keywords: mental, strateg	ies, basic op	erations, dec	cimals		
Phase/Duration	Learners	Activities			Resources
PHASE I: STARTER	Learners	Activities			resources
PHASE 2: NEW LEARNING	Write on the board: Express in index form: 2×2 = 2×2×2 = 2×2×2×2 = Ask learners to think about the problems on the board for a moment. Ask for a learner to volunteer the answer for th first one. (Answer: 2×2 = 2²) Ask another learner to answer the second one. (Answer: 2×2×2 = 2³) Ask: How do you think we will write the third of Allow learners to share their ideas, and ask then write the answer in their exercise books. (Answer: 2×2×2×2 = 2⁴) Guide learners to model repeated factors using			he answer for the the second one. write the third one? eas, and ask them to se books.	counters and bottle tops.

	Example: 3×3×3, is repeated factors, and each factor				
	is 3.				
	i. $2 \times 2 \times 2 \times 2 \times 2 = 2^5 = 32$				
	Guide learners to explain the features of an index				
	form or index notation.				
	Ask pupils to look at 2 ⁴ written on the board.				
	A L LL L LALES				
	Ask: How do you think we read this?				
	Allow them to share their ideas.				
	Allow them to share their ideas.				
	Guido learners to read it as 'two to the fourth hower'				
	Guide learners to read it as 'two to the fourth power' or 'two to the power four'				
	o. the te the penci jour				
	Again guide learners to explain the features of the				
	power 2 ³ .The 2 in 2 ³ is the base, while the 3 in 2 ³ is				
	the exponent or index.				
	3 3 				
	Assessment				
	Find the value of:				
	1) 5 ⁵ 6) 9 ³				
	2) 6 ³ 7) 2 ⁷				
	3) I0 ³ 8) 4 ⁴				
	4) 2 ¹⁰ 9) 10 ⁴				
	5) 7 ² 10) 20 ³				
PHASE 3:	Use peer discussion and effective questioning to find out				
REFLECTION	from learners what they have learnt during the lesson.				
	Take feedback from learners and summarize the lesson.				

Date: 4 TH MARCH, 2022		Period:		Subject: Mathematics		
Duration:				Strand: Number		
Class Size:			Size:	Sub Strand: Number Operations		
Content Standard: B7.1.2.3 Demonstrate unde use of powers of natural nu problems			Indicator: B7.1.2.3.2 Express a given number as a product of a given number or numbers, as well as, in the form of a power or two such numbers as product of powers		Lesson:	
Performance Indicator: Learners can express a give number or numbers	n number as a p	produ	ıct of a given	Core Competencies	:	
References: Mathematics	Curriculum Pg. I	13				
Keywords: prime numb	ers, prime fac	ctors	5,			
Phase/Duration	Learners Ac	_41! - '			Danasuman	
Phase/Duration PHASE I: STARTER			es d illustrations, revie		Resources	
PHASE I: STARTER	understandi	ing in				
PHASE 2: NEW LEARNING	Share performance indicators and introduce the lesson. Revise with learners to list the factors of numbers on the board. Example: 27 = {1,3,9,29} Ask a learners to describe prime numbers in his/her own words. Guide learners to distinguish between factors and prime factors of natural numbers. Engage learners to express a given number as a product of a given number or numbers. E.g. i. 32 = 2×2×2×2×2 × 2 . = 2 ⁵ ii. 81 = 3×3×3×3 = 3 ⁴ iii. 49 = 7×7 = 7 ² iv. 16 × 27 = 2×2×2×2×2 × 3×3×3 = 2 ⁴ × 3 ³ Assist pupils to write a natural number as powers of a product of its prime factors. E.g. 72 You can find the prime factors by repeatedly diving by prime numbers. 72 = 2 × 36 = 2 × 2 × 18					

	$= 2 \times 2 \times 2 \times 3 \times 3$ = $2^3 \times 3^2$	
	Assessment Express the following as a product of their prime factors 1) 180 2) 72 3)81 4) 49 5) 16	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.	

Date: 4 TH FEB, 2022		Period:		Subject: Mathematics		
Duration:				Strand: Number		
Class Size				Sub Strand: Number Operations		
Content Standard: B7.1.2.3 Demonstrate understanding and the use of powers of natural numbers in solving problems			Indicator: B7.1.2.3.3 Show that the value of any natural number with zero as its exponent or index is I and use it to solve problems		Lesson:	
	Performance Indicator: Learners can explain the fact that the value of any natural number Core Competencies:					
References: Mathematics	Curriculum F	Pg. 14				
Keywords: exponent, ind	ex					
	1.					
Phase/Duration		Activities			Resources	
PHASE I: STARTER	understa	ackboard illu nding in the rformance i				
PHASE 2: NEW LEARNING	l. ·				and loose straws base ten cut square, Bundle of sticks	

	Therefore, any natural number with an exponent of 0 is 1.
	Let learners practice with more examples to verify that any natural number with zero as exponent or index is 1.
	Assessment Simplify the following 1) 2 ³ x 2 ⁻⁴ 2) 2 ² 2 ⁴ 2 ⁻³
	2) 2 ² x2 ⁴ x2 ⁻³ 3) 5 ⁶ x5 ⁻² x5 ⁻³ 4) 2 ⁴ x2 ⁻³ 5) 5 ³ x5 ⁻³
PHASE 3:	Use peer discussion and effective questioning to find out
REFLECTION	from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.

Date: 11th March, 2022		Period:		Subject: Mathematics	
Duration: 50mins			Strand: Number		
Class: B7		Class Size:		Sub Strand: Number	Operations
Content Standard: B7.1.2.3 Demonstrate under powers of natural numbers Performance Indicator:	oblems	number writ	nd the value of a tten in index form. Core Competencies:	Lesson:	
Learners can find the value			ex form	CP I	
References: Mathematics (
Keywords: prime number	ers, prime	factors,			
Phase/Duration	Learners	Activities			Resources
PHASE I: STARTER	Using blackboard illustrations, review learners understanding in the previous lesson. Share performance indicators and introduce the lesson.				
PHASE 2: NEW LEARNING	on the b Example Ask a lea own work Guide le prime fact Engage le product E.g. i. 32 ii. 81 iii. 4' iv. 1c Assist pu a product E.g. 72 You can by prime 72 = 2 x = 2 x = 2 x	arners to derds. arners to derds. arners to distors of nature earners to express to e	Counters, bundle and loose straws base ten cut square, Bundle of sticks		

	Guide learners to find the value of a number written in index form. Example: 5 ³ Here we write out what the number means and
	work out the multiplication. $5^3 = 5 \times 5 \times 5 = 25 \times 5 = 125$ E.g.2. find the value of 3^4
	$3^4 = 3 \times 3 \times 3 \times 3 = 9 \times 9 = 81$ Assessment For each the fall position are a product of the in a ring.
	Express the following as a product of their prime factors 1) 180 2) 72 3)81 4) 49 5) 16
	Find the value of 1) 10 ⁵ 2) 5 ⁴ 3) 9 ³ 4) 3 ⁵ 5) 7 ²
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Date: II [™] MARCH, 2022		Period:		Subject: Mathematics		
Duration: 50MINS			Strand: Number			
Class: B7	Class: B7 Class Size:			Sub Strand: Number Operations		
Content Standard: B7.1.2.3 Demonstrate understanding and the use of powers of natural numbers in solving problems			powers of n	7.1.2.3.5 Apply the concept of owers of numbers (product of rime) to find Highest Common		
Performance Indicator: Learners can find Highest C	ommon Fact	tors of number	rs	Core Competencies	•	
References: Mathematics (Curriculum I	Pg. 15				
Keywords: prime number	ers, prime	factors,				
	Τ.					
Phase/Duration		Activities			Resources	
PHASE I: STARTER	_	ckboard illust nding in the p				
	understal	iding in the p	i evious iesso	л.		
	Share per	formance inc	dicators and i	introduce the lesson.		
PHASE 2: NEW	Guide le	arners to ex	coand a give	n number using	Counters, bundle	
LEARNING		of prime co			and loose straws base ten cut square, Bundle of sticks	
	Find the Highest Common Factor (HCF) of 36 and 72 1. Find the prime factors of both numbers 36 = 2 × 2 × 3 × 3 72 = 2 × 2 × 2 × 3 × 3 2. Use one of each of the numbers that are in both lists HCF = 2 × 2 × 3 × 3 HCF = 36 Use real life scenarios to explain HCF to learners. Example: Akweley has two pieces of paper. One piece is 24 cm wide and the other piece is 30 cm wide. She wants to cut both pieces into strips of equal width that are as wide as possible. How wide should she cut the strips? Answer: This problem can be solved using H.C.F. because we are cutting or "dividing" the strips of cloth into smaller pieces (Factor) of 24 and 30 (Common) and we are looking for the widest possible strips (Highest).				Durine Of Sticks	

	So, H.C.F. of 24 and 30 is 6 So we can say that Akweley should cut each piece to be 18 cm wide.
	Have learners practice with more examples.
	<u>Assessment</u>
	Find the HCF of the following.
	I) 36 and 72
	2) 12 and 24
	3) 36 and 48
	4) 25 and 125
	5) 16 and 48
PHASE 3:	Use peer discussion and effective questioning to find out
REFLECTION	from learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Date: 18 th MARCH, 2022		Period:		Subject: Mathematics	
Duration:				Strand: Number	
Class: B7	Class: B7 Class S			Sub Strand: Fractions	
Content Standard: B7.1.3.1 Simplify, compare and order a mixture of positive fractions (i.e. common, percent and decimal) by changing all to equivalent (i) fractions (ii) decimals, or (iii) percentages			the percenta given benchi tenths, fifths	etermine and recall ges and decimals of mark fractions (i.e. , fourths, thirds and use these to compare	
Performance Indicator: Learners can find the equival	lent fraction	s of a given fra	iction.	Core Competencies Communication and Co thinking and problem so	ollaboration, Critical
References: Mathematics C	Curriculum F	Pg.17			
Phase/Duration	Learners				Resources
PHASE I: STARTER	Teacher ask: I have GHc 200, and I want to give half of it to my son for transport. How much will I give to my son? Let learners think-pair and discuss the question and find the answer. Ask them to share their answers with the class. (Answer: I will give GHc100 to my son, because GHc100 Leones is half of GHc200) Explain that 'Half' is a word that we use in our everyday lives. It means to divide something into two equal parts. We can use 'half' to talk about sharing something between two people. Explain that 'Half' is also a fraction in mathematics. Share the performance indicators and introduce the				
PHASE 2: NEW LEARNING	lesson. Using blackboard illustrations review the concept of fractions. Engage learners to shade given fraction of squares in given shapes: example: shade $\frac{5}{6}$ of the rectangle.				Geodot paper for shading fractions

	Guide learners to write down equivalent fractions of given fractions. To find the equivalent of a given fraction. We add up the numerator and denominators. $ 2+2 \\ 2+2 \\ 2+2+2 $ Example: $\frac{2}{3} = \frac{4}{6}$ $3+3$ $3+3+3$
	Therefore: $\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15}$ Guide learners to express the fractions in its simplest form: Example: $\frac{6}{10} = \frac{3}{5}$
	Learners convert given improper fractions to mixed numbers: Example: $\frac{12}{5} = 2\frac{2}{5}$, $\frac{25}{9} = 2\frac{7}{9}$
	Guide learners to identify fractions which are (i) closer to half; (ii) closer to one; and (iii) closer to zero in games with fraction cards and fraction wheel.
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.

Date: 18 th MARCH, 2022		Period:		Subject: Mathematics		
Duration:				Strand: Number		
Class: B7	Class Size:			Sub Strand: Fraction	S	
Content Standard: B7.1.3.1 Simplify, compare and order a mixture of positive fractions (i.e. common, percent and decimal) by changing all to equivalent (i) fractions (ii) decimals, or (iii) percentages			fractions (i.e and decimal		Lesson: 2 OF 4	
Performance Indicator: Learners can compare and c	order fractio	ns		Core Competencies Communication and Co thinking and problem se	ollaboration, Critical	
References: Mathematics (Curriculum F	Pg.17		,	_	
Dia a a /Danasti a a	I I	A -4::4:			D	
Phase/Duration PHASE I: STARTER	Learners	Activities ckboard illust	rations rovid	ow learners	Resources	
PHASE I: STARTER	_	nding in the p				
	Share per	formance inc	dicators and i	introduce the lesson.		
PHASE 2: NEW LEARNING	Guide learners to compare and order common fractions using the symbol (<, = or >). To order fractions with the same denominator, we compare the numerators. Example: order $\frac{2}{3}$, $\frac{5}{3}$, $\frac{1}{3}$ in ascending or increasing order. (from the smallest to biggest). In this case we start from I, 2 and 5 So $\frac{1}{3}$, $\frac{2}{3}$, $\frac{5}{3}$				Square grid sheet or Geodot paper for shading fractions	
	To order fractions with different denominators, we change them to have the same denominator by finding equivalent fractions. Example: order $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{5}$ in ascending order. So $\frac{1}{2} = \frac{15}{30}$, $\frac{1}{3} = \frac{10}{30}$, $\frac{2}{5} = \frac{12}{30}$ Now we compare the numerators since they have the same denominators as 30. In this case $10 \left(\frac{1}{3}\right)$, $12 \left(\frac{12}{30}\right)$ and $15 \left(\frac{15}{30}\right)$. So $\frac{1}{3}$, $\frac{2}{5}$, $\frac{1}{2}$ Learners to Find which decimal fractions is greater: 0.99 is greater than 0.977					

	Guide learners to order the decimal numbers 0.098, 0.985 and 0.123 from least to greatest. Ask learners to compare and order decimal fractions and percent, and express them in one form (i.e. either common, decimal or percent). For instance, to order 0.832, $\frac{3}{8}$ and 38% from least to largest; we have 0.832 =832 1000 = 83.2%,
	Hence the order from least to the largest is $\frac{3}{8}$, 38% and 0.832.
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.
	Ask learners how the lesson will benefit them in their daily lives.

WEEK 10

Date: 25 th MARCH, 2022	Period:		Subject: Mathematics		
Duration:				Strand: Number	
Class: B7 Class Size:				Sub Strand: Fraction	ns
Content Standard: B7.1.3.2 Demonstrate an understanding of the process of addition and/or subtraction of fractions and apply this in solving problems		of addition and subtraction of		Lesson: 3 of 7	
Performance Indicator: Learners can add and subtra	act unlike an	d mixed fractio	ons	Core Competencies Critical thinking and pro Digital Literacy (DL)	
Reference: Mathematics	Curriculum	Pg. 19-20			
Dha a a / Duna à i a ra	1	A -4:: ::4:			Danassan
Phase/Duration PHASE I: STARTER		Activities ckboard illust	rations rovid	ow learners	Resources
THASE I. STARTER	understar Introduce	nding in the p			
PHASE 2: NEW LEARNING	Introduce the lesson by sharing the performance indicators. Guide learners to add mixed fractions, i.e. $2\frac{2}{5}$ and $1\frac{2}{3}$, we first add the whole numbers and then add the fractions; i.e. $2 + 1 + \frac{2}{5} + \frac{2}{3}$ = $3 + \frac{6}{15} + \frac{10}{15}$ = $3\frac{6+10}{15}$ = $3\frac{6+10}{15}$ = $4\frac{1}{15}$ Guide learners to subtract mixed fractions, i.e. $2\frac{4}{5} - 1\frac{2}{3}$, we first subtract the whole numbers and then subtract the fractions; i.e. $(2-1) + \frac{4}{5} - \frac{2}{3}$ = $1\frac{12-10}{15}$ = $1\frac{2}{15}$.				Square grid sheet or Geodot paper for shading fractions

	Alternatively, we may change the mixed fractions to
	improper fractions first.
	i.e. $2\frac{4}{5} - 1\frac{2}{3}$,
	$2\frac{4}{5} = \frac{14}{5}, \frac{2}{3} = \frac{5}{3}$
	$=\frac{14}{5}-\frac{5}{3}$, change to equivalent fractions
	$=\frac{42}{15} - \frac{25}{15} = \frac{42 - 25}{15}$
	$=\frac{17}{15}=1\frac{2}{15}$
	Assessment
	Solve the following
	1) $2\frac{1}{3} - 1\frac{1}{4}$
	2) $1\frac{5}{6} + 3\frac{7}{8}$
	3) $3\frac{3}{14} - 2\frac{7}{4}$
	4) $8\frac{3}{10} + 7\frac{3}{5}$
PHASE 3:	Use peer discussion and effective questioning to find out
REFLECTION	from learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Date: 25 th MARCH, 2022	CH, 2022 Period: Subject: Mathematics			3	
Duration:			Strand: Number		
Class: B7	Class Size:		Sub Strand: Fractions		
Content Standard: B7.1.3.2 Demonstrate an ur process of addition and/or s and apply this in solving pro Performance Indicator:		involving ac	Solve problems Idition or of fractions Core Competencies	Lesson: 4 of 7	
Learners can solve problem fractions	s involving a	ddition or subt	raction of	Critical thinking and pro Digital Literacy (DL)	
Reference: Mathematics	Curriculum	Pg. 19-20			
Phase/Duration		Activities			Resources
PHASE I: STARTER	Using blackboard illustrations, review learners understanding in the previous lesson. Introduce the lesson by sharing the performance indicators				
PHASE 2: NEW LEARNING	Introduce the lesson by sharing the performance indicators. Guide learners to solve word problems involving addition or subtraction of fractions. Example: i. $3\frac{1}{3}$ feet are cut off a board that is $12\frac{1}{4}$ feet long. How long is the remaining part of the board? i.e. $12\frac{1}{4} - 3\frac{1}{3} = (12 - 3) + \frac{1}{4} - \frac{1}{3}$ $= 9\frac{4-3}{12} = 9\frac{1}{12}$ The remaining part of the board is $9\frac{1}{12}$ long. Engage learners to practice with more examples. Assessment i. The Musa family decided to hike to a waterfall, approximately $8\frac{5}{8}$ kilometers away. After an hour the lake was still $5\frac{1}{3}$ kilometers away. How far did the group hike so far?				Square grid sheet or Geodot paper for shading fractions

	Use peer discussion and effective questioning to find out	
REFLECTION	from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	
	Ask learners how the lesson will benefit them in their daily lives.	

WEEK II

Date: 1st APRIL, 2022		Period:	Period: Subject: Mathematics			
Duration:				Strand: Number		
Class: B7	Class Size: Sub Stra			Sub Strand: Fractions		
Content Standard: B7.1.3.3 Demonstrate an uprocess of multiplying and and apply this in solving properties. Performance Indicators:		(i.e. commo	Explain the process of multiplying a fraction on, percent and decimal fractions up to s) by a whole number and by a fraction. Core Competencies:			
Learners can multiplying a		_		Critical thinking and proble	em solving	
References: Mathematic	s Curriculur	n Pg. 20 - 21				
Phase/Duration	Learners /	Activities			Resources	
PHASE I: STARTER	Using blackboard illustrations, review learners understanding in the previous lesson. Share performance indicators and introduce the					
PHASE 2: NEW LEARNING	Share performance indicators and introduce the lesson. Guide learners to multiply a whole number by a fraction, the multiplication is read as 'times'. For instance, $3 \times 2\frac{2}{3}$ means 3 times $2\frac{2}{3}$ or 3 groups of $2\frac{2}{3}$; i.e. $3 \times (2+\frac{2}{3})$ or $3 \times \frac{8}{3}$. The product can be obtained by (i) changing all into common or equivalent fraction; (ii) multiplying all numerators and denominators; (iii) simplifying the results. Guide learners to multiply a fraction by a whole number, the multiplication is read as 'of'. For instance, $\frac{2}{3} \times 5$ means $\frac{2}{3}$ of 5 or i.e. $\frac{2}{3} \times \frac{5}{1} = \frac{2x5}{3x1} = \frac{10}{3} = 3\frac{1}{3}$. The product can be obtained by (i) changing all into common fraction; (ii) multiplying all numerators and denominators; (iii) simplifying the results. Guide learners to multiply a fraction by a fraction, the multiplication is read as 'of'. For instance, $\frac{2}{3} \times \frac{1}{2}$ means $\frac{2}{3}$ of $\frac{1}{2}$ or instance, $\frac{2}{3} \times \frac{1}{2}$ means $\frac{2}{3}$ of $\frac{1}{2}$ or i.e. $\frac{2}{3} \times \frac{1}{2} = \frac{2x1}{3x2} = \frac{2}{6} = \frac{1}{3}$.				Square grid sheet or Geodot paper for shading fractions	

	(i) changing all into common fraction; (ii) multiplying all numerators and denominators; (iii) simplifying the results.
	Assessment Find I). $15 \times \frac{2}{3}$ 2). $12 \times \frac{3}{8}$ 3). $\frac{2}{3} \times 240$
	4) Calculate the following (when necessary, round your answer to the nearest tenth): a. 28% of 40 b. 234% of 8 c. 3½ % of 50 d. 0.2% of 15000 e. 8.25% of 62
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Date: Ist APRIL, 2022	Period: Subject: Mathematics		3		
Duration:				Strand: Number	
Class: B7		Class Size:		Sub Strand: Fraction	s
Content Standard: B7.1.3.3 Demonstrate an understanding of the process of multiplying and dividing positive fractions and apply this in solving problems Performance Indicator:			given quant	Find a fraction of city (i.e. money or city of objects) Core Competencies	Lesson:
Learners can find a fraction		ntity		Critical thinking and pr	
References: Mathematic	s Curriculun	n Pg. 21-22			
					1
Phase/Duration	Learners				Resources
PHASE I: STARTER	understa	nding in the	previous le	eview learners esson. nd introduce the	
PHASE 2: NEW LEARNING	Guide lea just like n multiplica For instar i.e. $\frac{2}{3} \times \frac{60}{1}$ E.g. 2. The learners at i.e. $\frac{2}{3} \times 13$ so; 132 — Have learners at i.e. $\frac{2}{3} \times 13$	nultiplying by tion is read a face, $\frac{2}{3} \times GH\mathbb{Q}$ $= \frac{2x60}{3x1} = \frac{120}{3}$ here are $ 32 $ fare girls, how $ 2 = \frac{2}{3} \times \frac{132}{1} = 88 = 44$ boys there to praction shows the analysis are supported by the same part of the shows the analysis are girls.	a whole number of the state of	of GH \oplus 60, class. If $\frac{2}{3}$ of the are in the class? = 88 girls re examples.	Geodot paper for shading fractions

PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

WEEK 12

REVISION AND END OF TERM ASSESSMENT

Date: 7 th APRIL, 2022	Period:		Subject: Mathematics		
Duration: 50 mins			Strand: Strands treated	for the term	
Class: B7	Class Si	ze:	Sub Strand: Sub Strand	ls for the term	
Content Standard: Demonstrate knowledge at the topics treated so far.	_	Indicator: Recall and sumr	marize all what they have le	arnt within the term.	
Performance Indicator: Learners can recall and sun the term	nmarize all what they ha		Core Competencies: Critical thinking and prob	lem solving	
References: Mathematic	s Curriculum Pg. 1-22				
Phase/Duration	Learners Activities			Resources	
PHASE I: STARTER	Using blackboard understanding in Share performant lesson.	the previous le	esson.		
PHASE 2: NEW LEARNING	Share performance indicators and introduce the lesson. Revise with learners to form numbers with given multibase ten materials, given that a small cube is 1,000; 10 small cubes is a rod (i.e. 10,000), 10 rods is a flat (i.e. 100,000); and 10 flats is a block (i.e. 1000,000) Learners to use multiples of 10s, 50s, 100s and 200s to represent numbers in multiples of ways E.g. 5,560 = 20×200 + 10×100 +11×50 + 1×10; Guide learners to apply the halving and doubling techniques to determine the product of two given numbers. i. 28 x 5, think 14 x 10=140 ii. 125 x 4, think (125 x 2) x 2 = 250 x 2 = 500 Have learners to solve mathematics problems involving the properties of operations. Example: the commutative property. In mathematics, a binary operation is commutative if changing the order of the operands does not change the result. If a and b are rational numbers and — a x b = b x a. Then we say multiplication of rational numbers is commutative.			Counters, bundle and loose straws base ten cut square, Bundle of sticks	

	Guide learners use mental strategies to perform
	subtraction using words like minus, from a number
	take, , find the difference, and what must be added to
	make;
	E.g. I. what is 109 minus 49 = 60
	E.g.2. from 89 take away 32
	Engage learners to express a given number as a product of a given number or numbers. E.g. i. $32 = 2 \times 2 \times 2 \times 2 \times 2 = 2^5$
	ii. $81 = 3 \times 3 \times 3 \times 3 = 3^4$
	iii. $49 = 7 \times 7 = 7^2$
	iv. $16 \times 27 = 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3 = 2^4 \times 3^3$
	Perform activities with pupils to discover that for any natural number a , $a^0 = I$ Example:
	24
	i.e. (i) $\frac{24}{24}$ 24 ÷ 24 = 1 2222 2222
	(ii) 24 ÷ 24 = 24-4 = 20 = I
	Guide learners to verify why the value of any natural number with exponent zero is 1. Verification:.
	$\frac{x}{x} = 1$, but from indices, $\frac{x}{x} = x^0$, hence $x^0 = 1$ for any natural number
	Assessment
	Simplify the following
	$\begin{vmatrix} 6 \\ 2^3 \times 2^{-4} \end{vmatrix}$
	7) 2 ² ×2 ⁴ ×2 ⁻³ 8) 5 ⁶ ×5 ⁻² ×5 ⁻³
	9) 2 ⁴ ×2 ⁻³
	$10) 5^{3} \times 5^{-3}$
	Express the following as a product of their prime
	factors
	1) 180 2) 72 3)81 4) 49 5) 16
PHASE 3:	Use peer discussion and effective questioning to find out
REFLECTION	from learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Date: 7 th APRIL, 2022	Period:		Subject: Mathematics		
Duration: 50 mins			Strand: Strands treated	Strand: Strands treated for the term	
Class: B7		Class Si	ze:	Sub Strand: Sub Strand	ds for the term
Content Standard: Demonstrate knowledge and understanding in the topics treated so far. Indicator: Preparation tow			vards vacation		
Performance Indicator: Learners can answer all end exercise books.	of term asse	essment qu	uestions in their	Core Competencies: Critical thinking and prob	olem solving
References: Mathematics	Curriculun	n Pg. 1-22			
Phase/Duration	Learners	Activities			Resources
PHASE I: STARTER	Ask learners to bring and display all the materials needed for the assessment. Educate them on the consequences of examination mal practice.				Exercise books, pen, pencils, erasers, Answer sheets.
PHASE 2: NEW LEARNING	Engage learners to arrange themselves properly to sit for the assessment test. Mark learners answer sheets or exercise books. Fill in learner's SBA books and report cards. Distribute learners answer sheets or exercise books for feedback.			SBA, Assessment Questions and exercise books.	