WEEK 7

Date: 4 TH MARCH, 2022		Period:		Subject: Mathematics		
Duration:				Strand: Number		
Class: B7	class: B7		s Size: Sub Strand: Number		r Operations	
Content Standard: B7.1.2.3 Demonstrate understanding and the use of powers of natural numbers in solving problems			Indicator: B7.1.2.3.2 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 given number as a number or numbers			uct of a given	Core Competencies	:	
References: Mathematics (Curriculum Pa	g.13				
Keywords: prime number	ers, prime f	actor	5,			
Phase/Duration	Learners A	\	ies		Resources	
PHASE I: STARTER			d illustrations, revi	ew learners	ivesori ces	
THASE I. STARTER	understand	ding ir	the previous lesso	on.		
PHASE 2: NEW LEARNING	Share performance indicators and introduce the le Revise with learners to list the factors of numb on the board. Example: 27 = {1,3,9,29} Ask a learners to describe prime numbers in hown words. Guide learners to distinguish between factors prime factors of natural numbers. Engage learners to express a given number as product of a given number or numbers. E.g. i. 32 = 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 × 3×3×3 = 2 ⁴ × 3 ³ Assist pupils to write a natural number as pow a product of its prime factors. E.g. 72 You can find the prime factors by repeatedly depth of the prime numbers. 72 = 2 × 36 = 2 × 2 × 18 = 2 × 2 × 2×9					

	$= 2 \times 2 \times 2 \times 3 \times 3 = 2^{3} \times 3^{2}$	
	Assessment Express the following as a product of their prime factors	
PHASE 3: REFLECTION	1) 180 2) 72 3)81 4) 49 5) 16 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: B7	Class Size:		Sub Strand: Number Operations			
Content Standard: B7.1.2.3 Demonstrate understanding and the use 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 with zero as exponent or in		lue of any natu	ıral number	Core Competencies		
References: Mathematics	Curriculum F	Pg.14				
Keywords: exponent, ind	ex					
Phase/Duration		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	natural r Example i.e. (i) $\frac{2}{2}$ (ii) $\frac{2}{4}$ Guide le number Verificat $\frac{x}{x} = 1$, but natural r Thus: if v done usi That is, Therefor 0 is 1.	$\frac{4}{4} 24 \div 24$ $4 \div 24 = 2$ $24 \Rightarrow 24 \Rightarrow 24$ $24 \Rightarrow 24 \Rightarrow 24$ $25 \Rightarrow 24 \Rightarrow 24 \Rightarrow 24$ $25 \Rightarrow 24 \Rightarrow 24 \Rightarrow 24$ $26 \Rightarrow 24 \Rightarrow 24 \Rightarrow 24$ $27 \Rightarrow 27 \Rightarrow$	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: REFLECTION	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.