Grade 7: Mathematics Unit 1 - Number Sense

Start: August- November LEARNING EXPERIENCES:

- Place value and expanded notation of very large numbers
- Rounding and Estimation/ Approximation
- Prime numbers and prime factors
- Greatest/ highest common factor, lowest common multiple
- Fractions, decimals, percentages

Index notation

- Index noFactors
- Multiples
- Order of operations
- Integers
- Exponents, Square/ cube numbers, roots

KEY CONCEPT:	Form
RELATED CONCEPTS:	Representation, Equivalence

	Critical thinking and math literacy is developed when connections between
STATEMENT OF INQUIRY	multiple representations, equivalence and form can be discovered by examining
	patterns.

INQUIRY QUESTIONS:	
Factual:	How do we perform operations with decimals and fractions?
Conceptual:	How can understanding numbers in different forms improve processes and accuracy? How does the way we represent something affect its usefulness?
Debatable:	Do we need numbers in different forms?

OBJECTIVES AND ASSESSMENT CRITERIA:		
	Students will	
A: Knowing and	i. select appropriate mathematics when solving problems in both familiar and	
Understanding	unfamiliar situations.	
	ii. apply the selected mathematics successfully when solving problems.	
	iii. solve problems correctly in a variety of contexts.	
	Students will	
B: Investigating Patterns	i. apply mathematical problem-solving techniques to recognize patterns.	
	ii. describe patterns as relationships or general rules consistent with findings	
	iii. verify whether the pattern works for other examples.	
	Students will	
C: Communicating	i. use appropriate mathematical language (notation, symbols and terminology) in	
	both oral and written statements.	
	ii. use appropriate forms of mathematical representation to present information.	
	iii. communicate coherent mathematical lines of reasoning.	
	iv. organize information using a logical structure.	
ATLs	Thinking, Communication, Self-Management	

RESOURCES:

MS Teams /Laptops/ MyiMaths/Quizizz/Khan Academy/Managebac

SUMMATIVE ASSESSMENT:

Criteria A, B and C

Duration: 12 weeks