## Grade 7: Mathematics

 Unit 1 - Number SenseStart: 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
- Factors
- Multiples
- Order of operations
- Integers
- Exponents, Square/ cube numbers, roots

| KEY CONCEPT: | Form |
| :--- | :--- |
| RELATED CONCEPTS: | Representation, Equivalence |


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

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


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

## RESOURCES:

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

## SUMMATIVE ASSESSMENT:

Criteria A, B and C

