

# Grade 7 - Mathematics

## Unit 2: Where Are We?

**Start:** January- Mid February

**Duration:** 6 weeks

### LEARNING EXPERIENCES:

- Representation using ratio
- Proportional reasoning
- representations of proportionality (including visual)
- Calculating and interpreting rate
- Scale drawing and map and map reading

- Rate and change of rate
- Rate and converting measures / units
- Currency conversions
- Problem solving with rate

### KEY CONCEPT:

**Logic**

### RELATED CONCEPTS:

**Quantity, Equivalence**

### STATEMENT OF INQUIRY

A **logical** process helps to simplify **quantities** and develop informed opinions about world issues.

### INQUIRY QUESTIONS:

#### Factual:

What is a ratio?  
How do we simplify?

#### Conceptual:

How can you establish equivalence?  
How are simplification and equivalence related?

#### Debatable:

What makes for healthy and fair competition?  
Which is more being equal, competition or cooperation?

### OBJECTIVES AND ASSESSMENT CRITERIA:

#### A: Knowing and Understanding

- Students will:
- i. select appropriate mathematics when solving problems in both familiar and unfamiliar situations.
  - ii. apply the selected mathematics successfully when solving problems.
  - iii. solve problems correctly in a variety of contexts.

#### C: Communicating

- Students will:
- 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.

#### D: Applying mathematics in real-life contexts

- Students will:
- i. identify relevant elements of authentic real-life situations.
  - ii. select appropriate mathematical strategies when solving authentic real-life situations.
  - iii. apply the selected mathematical strategies successfully to reach a solution.
  - iv. explain the degree of accuracy. describe whether a solution makes sense in the context of the authentic real-life situation.

#### ATLs

**Thinking, Communication, Self-Management**

### RESOURCES:

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

### SUMMATIVE ASSESSMENT:

Criteria A, C and D