# Grade 8: Mathematics <br> Unit 2 - Decisions, Decisions 

Start: January- February

## LEARNING EXPERIENCES:

- Review of algebraic concepts
- Representing linear relationships in different ways
- Graphing linear relationships using a variety of methods
- Understanding the relationship between parallel and perpendicular lines
- Reading and interpreting graphs
- Solve problems using linear models

| KEY CONCEPT: | Relationships |
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| RELATED CONCEPTS: | Change, Models |
| STATEMENT OF INQUIRY Representing patterns of change as relationships can help determine the impact of <br> human decision-making on the environment. |  |
| INQUIRY QUESTIONS: | What is a pattern? <br> What is slope? |
| Conceptual: | How can you represent changing relationships? <br> What makes a good representation? |
| Debatable: | How does human decision-making affect the environment? <br> Do we always face consequences for our decisions? |


| 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. |
| 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. <br> iv. organize information using a logical structure. |
| D: Applying mathematics in <br> real-life contexts | Students will: <br> i. identify relevant elements of authentic real-life situations. <br> ii. select appropriate mathematical strategies when solving authentic real-life <br> situations. <br> iii. apply the selected mathematical strategies successfully to reach a solution. <br> iv. explain the degree of accuracy. <br> v. describe whether a solution makes sense in the context of the authentic real-life <br> situation. |
| ATLs | Research, Thinking |

## RESOURCES:

MS Teams/Laptops/ MyiMaths/Quizizz/Khan Academy/Managebac/Geogebra
SUMMATIVE ASSESSMENT: Criteria A, C and D

