

Unit Topic	Key Concepts	Related Concepts	Global Contexts	Statement of Inquiry
Unit 1: Congruence and Transformation	Relationships	Equivalence, Justification	Models, Mathematical Puzzles, Principles & Discoveries	Identifying relationships assists in justification when determining equivalence.
Unit 2: Graphing Quadratics	Relationships	Representations, Patterns	Science and technical innovation	Representations of Models exhibit Patterns that identify Relationships.
Unit 3: Solving Quadratics	Logic	Patterns, Representation	Methods, Processes and Solutions	Use logical reasoning to create various representations and identify patterns
Unit 4: Square Root and Inverse Variation	Relationships	Representation, Simplification	Methods, Processes and Solutions	Different representations can assist in identifying simplified relationships
Unit 5: Similarity, Right Triangles	Relationships	Models Representation	Methods, Ingenuity	Ingenious methods are often developed by representing

Unit 6: Logic
Probability

Generalization
Validity

Identities and
relationships
Exploration:
personal
efficacy and
agency

Using logic to
develop valid
generalizations
can influence
our personal
efficacy (what
we think we can
do) and thus our
agency (what
we can actually
accomplish)

Year 5 Mathematics

MYP Subject Group Objectives	MYP Assessment Criteria	Assessment Task
A: Knowing and Understanding i. select and apply mathematical problemsolving techniques to discover complex patterns	A: Knowing and understanding, C: Communication D: Real-Life Context	All in Unit Assessment
A: i. select appropriate mathematics when solving problems, ii. apply the selected mathematics successfully when solving problems. iii. solve	A: Knowing and understanding, B: Investigating Patterns C: Communication D: Real-Life Context	All in Unit Assessment
A: i. select appropriate mathematics when solving problems, ii. apply the selected mathematics successfully when solving problems iii. solve problems correctly in both familiar and unfamiliar situations in a variety of contexts.	A: Knowing and understanding, C: Communication D: Applying mathematics in real-life contexts	All in Unit Assessment
C: i. use appropriate mathematical language (notation, symbols and terminology) in both oral and written explanations ii. use appropriate forms of mathematical representation to present information iii. move between different forms of mathematical representation		
D: i. identify relevant elements A: i. select appropriate mathematics when solving problems, ii. apply the selected	A: Knowing and understanding, B: Investigating Patterns C: Communication	All in Unit Assessment
A: Knowing and Understanding i. select and apply mathematical problemsolving techniques to	A: Knowing and understanding, B: Investigating Patterns C: Communication D:	All in Unit Assessment

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

B: Investigating Patterns

i. select and apply mathematical problemsolving techniques to discover complex patterns
ii. describe patterns as general rules consistent with findings
iii. prove, or verify and justify, general rules

C: Communicating

i. Use appropriate mathematical language.
ii. Use different forms of

A: Knowing and understanding, B: Investigating Patterns C: Communication D: Applying mathematics in real-life contexts

All in Unit Assessment

Knowledge & Skills	ATL
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Understand rigid transformations, or series of rigid transformations, result in congruent geometric figures.	I. Communication skills VIII. Critical thinking
Understand that transformations I can build new functions from existing functions.	I. Communication skills VIII. Critical thinking
Interpret, compare, and analyze quadratics in different representations (tables, graphs, algebraic expressions, and verbal descriptions).	I. Communication skills, VIII. Critical thinking
Solve quadratics algebraically using/by: factoring (M1) Square root method (M1) Quadratic Formula Completing the square	skills, X. Transfer skills

Show and interpret the key features of a square root function.	II. Collaboration skills VIII.
In this unit, students will create, interpret and solve problems	Critical VI.
Understand, prove, and use properties of triangles to solve problems.	Information literacy skills. VII.
Use proportional reasoning to	

Understand, explain, and use conditional probabilities, the addition rule for probabilities, and the multiplication rules for probabilities.

I. Communication skills,
VIII. Critical thinking skills