

Criterion A: Knowing and Understanding B: Investigating Patterns C: Communicating D: Applying in Real Life Contexts

Mathematics
Year 1- Grade 6

Unit Title	Key Concept	Related Concepts	Global Context	Statement of Inquiry	Subject Group Objectives	ATL Skills	Content
Our Schools, Our Neighbors, and the Problem We All Live With (Data and Statistics) (This is also an IDU!)	Relationships	Patterns Systems	Fairness and Development	Social relationships can be analysed to classify systemic inequalities and predict patterns of oppression in the public sphere.	Criterion C Criterion D	Thinking/Critical Thinking Research/Information literacy	Compute fluently with multi-digit numbers and find common factors and multiples
Prime Time (factors, multiples, and prime factorization, and the distributive property)	Relationships	Generalizations Patterns	Identities and Relationships	Looking for patterns allows us to make generalizations about relationships .	Criterion A	Communication-communication skills Communication-communication skills	Factors Multiples Applications of both in the real world Even and Odd numbers Prime and Composite numbers Prime factorizations

Food Deserts (Rational Numbers on the Coordinate Plane)	Relationships	Patterns Models	Fairness and Development	Models can be used to understand patterns and relationships.	Criterion B ii Criterion C ii Criterion D i	Research/ Information literacy Thinking/Critical Thinking	Apply and extend previous understandings of numbers to the system of rational numbers
Design a Public Park (Geometry: 2- and 3-Dimensional Shapes)	Form	Measurement Space	Orientation in Space and Time	Measurement is necessary in order to orient forms within a space.	Criterion C Criterion D	Communication - Communication Self-management - organization Research- information literacy	Solve real-world and mathematical problems involving area, surface area, and volume
Baking with Fractions (Operations with Rational Numbers)	Logic	Quantity Generalizations	Personal and Cultural Expression	Logic should be used when measuring quantities and making generalizations.	Criterion B Strands i, ii, iii	Thinking- critical thinking Thinking- creativity and innovation	Operations with rational numbers (fractions) Rounding/ estimation Learning and using algorithms for computations

Mathematics
Year 2- Grade 7

Unit Title	Key Concept	Related Concepts	Global Context	Statement of Inquiry	Subject Group Objectives	ATL Skills	Content
Integers & Rational Numbers (Accentuate the Negative)	Logic	Equivalence Quantity	Globalization and sustainability	Consumers manage their finances by applying logic to quantities and their equivalence.	Criterion A Criterion C (i, iv, v) Criterion D	Research Communication	Adding, subtracting, multiplying, and dividing all rational numbers. Evaluate numerical expressions. Selecting appropriate operations for application problems.
Two - Dimensional Geometry (Shapes & Designs)	Form	Space Pattern	Scientific and Technical Innovation	Understanding properties of form and space can help to recognize and create patterns in real world structures	Criterion B Criterion C (i, iv, v)	Thinking Communication	Identification and properties of polygons. Interior and exterior angle measures of polygons.
Proportional Relationships (Stretching and Shrinking & Comparing and Scaling)	Relationships	Equivalence Change	Scientific and Technical Innovation	Examining relationships between equivalent quantities and observing patterns in changing quantities can help us to better	Criterion C (ii, iii) Criterion D	Thinking Self-management	Scale Factor Similarity Unit Rate Proportions Percents

				understand our world.			Converting between different units of measurement
Linear Relationships (Moving Straight Ahead)	Relationships	Model Change	Scientific and technical innovation	Models can be used to explore relationships between changing quantities	Criterion A Criterion B Criterion C (ii, iii)	Research Self-management	<p>Understanding and using the Cartesian plane</p> <p>The components of the linear function $y=mx+b$</p> <p>Solving linear equations algebraically and graphically</p> <p>Graphing linear functions and understanding their characteristics</p>

Mathematics
Year 3- Grade 8

Unit Title	Key Concept	Related Concepts	Global Context	Statement of Inquiry	Subject Group Objectives	ATL Skills	Content
Foundations of Algebra (Equations & Inequalities)	Logic	Simplification Justification	Fairness & Development	Logic can be applied to simplify problems and justify reasoning when exploring inequality	Criterion A	Communication	Solving Equations Solving and graphing solutions to inequalities
Modeling with Algebra (Thinking with Mathematical Models)	Relationships	Model Representation	Globalization & Sustainability	Relationships can be represented using models to understand changes in populations and demographics	Criterion B Criterion C	Communication Thinking Self Management	Graphical analysis and representation of data in scatter plots and other data displays Constructing and interpreting scatter plots and writing equations for lines of best fit
Functions (Say It with Symbols & Function Junction)	Logic	Pattern Simplification Model	Scientific and technical innovation	Modeling using a logical process helps us understand the world around us	Criterion A Criterion B Criterion D	Thinking Communication	Modeling with expressions and equations Real-world applications of functions

Systems of Equations & Inequalities (It's in the System)	Relationships	Representation System Model	Scientific and technical innovation	Representing a system of relationships with models can help us understand how to make better use of resources	Criterion C Criterion D	Communication Self Management Thinking	Solving and graphing linear equalities, inequalities and system of equations.
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