

ESCAPE PROJECTS



UNIVERSITY OF
TORONTO

Binogi

Mitacs

Ontario Mathematics Curriculum Overview

Grade 6 ~ 8

A. Social-Emotional Learning Skills in Mathematics & Mathematical Processes

Social-Emotional Learning (SEL) Skills

- Identify and manage emotions
- Recognize sources of stress and cope with challenges
- Maintain positive motivation and perseverance
- Build relationships and communicate effectively
- Develop self-awareness and sense of identity
- Think critically and creatively

Mathematical Processes

- Problem solving
- Reasoning and proving
- Reflecting
- Connecting
- Communicating
- Representing
- Selecting tools and strategies

B. Number

Grade 6	Grade 7	Grade 8
B1. Number Sense		
: rational numbers		: rational and irrational numbers
: fractions, decimals, and percents		
B2. Operations		
: properties and relationships		
: math facts		
: mental math		
: addition and subtraction		
: multiplication and division		

C. Algebra

C1. Patterns and Relations

- Patterns

C2. Equations and Inequalities

- Variables and expressions
- Equalities and inequalities

C3. Coding

- Coding skills

C4. Mathematical Modelling

D. Data

D1. Data Literacy

- Data collection and organization
- Data visualization
- Data analysis

D2. Probability

E. Geometry and Measurement

Grade 6	Grade 7	Grade 8
E1. Geometric and Spatial Reasoning		
: geometric reasoning		
: location and movement		
E2. Measurement		
: the metric system		
: angles	: circles	: lines and angles
: area and surface area	: volume and surface area	: length, area, and volume

F. Financial Literacy

F1. Money

- Money concepts

F2. Finances

- Financial management
- Consumer and civic awareness