# Gizmos Grade 8 Math Correlations and Supplementation

*This correlation lists the recommended Gizmos for this province's curriculum standards. Click any Gizmo title below for more information.*

A: Numbers can be represented in many forms and reflect different relationships.

- Dividing Mixed Numbers
- Part-to-part and Part-to-whole Ratios
- Percents, Fractions, and Decimals

C: Patterns allow us to see relationships and develop generalizations.

- Arithmetic Sequences
- Arithmetic and Geometric Sequences
- Geometric Sequences

D: Geometry and measurement empower us to make meaning of the world.

- Estimating Population Size

F: Data enable us to draw conclusions and make predictions in an unstable world.

- Polling: City
- Real-Time Histogram

1: Reasoning and analyzing

1.1: Inductively and deductively reason and use logic to explore, make connections, predict, analyze, generalize, and make conclusions

- Biconditional Statements
- Conditional Statements

1.3: Use tools or technology to explore and create patterns and relationships, and test conjectures

- Geometric Probability

2: Understanding and solving

2.1: Implement multiple strategies to solve problems in both abstract and real-life situations using different cultural perspectives

- Estimating Population Size

2.2: Develop, construct, and apply mathematical understanding through play, inquiry, and problem solving

- Estimating Population Size

2.3: Engage in problem-solving experiences that are connected to place, story, and cultural practices relevant to the local community

- Estimating Population Size

4: Connecting and reflecting

4.2: Explore, apply, and connect concepts to each other, to other disciplines, and to the real world

- Estimating Population Size
- Unit Conversions

4.4: Apply cultural perspectives of First Peoples to the concepts of locating, measuring, and numbering

- Estimating Population Size

a: logic and patterns to solve games and puzzles

- Biconditional Statements
- Conditional Statements
- Estimating Population Size

b: percents less than 1 and greater than 100 (decimal and fractional percents)

- Percent of Change
- Percents and Proportions
- Percents, Fractions, and Decimals
- Real-Time Histogram
- Time Estimation

c: perfect squares and cubes

- Operations with Radical Expressions
- Square Roots

e: rates and proportional reasoning, ratio, proportions, and percent

- Beam to Moon (Ratios and Proportions) - Metric
- Direct and Inverse Variation
- Estimating Population Size
- Geometric Probability
- Part-to-part and Part-to-whole Ratios
- Percent of Change
- Percents and Proportions
- Percents, Fractions, and Decimals
- Proportions and Common Multipliers
- Real-Time Histogram
- Road Trip (Problem Solving)
- Time Estimation

f: operations with fractions (addition, subtraction, multiplication, division, and order of operations)

- Adding Fractions (Fraction Tiles)
- Dividing Fractions
- Dividing Mixed Numbers
- Estimating Sums and Differences
- Fractions with Unlike Denominators
- Improper Fractions and Mixed Numbers
- Multiplying Fractions
- Multiplying Mixed Numbers

g: expressions and equations, writing and evaluating using substitution

- Absolute Value Equations and Inequalities
- Linear Inequalities in Two Variables
- Modeling One-Step Equations
- Solving Equations on the Number Line
- Using Algebraic Equations
- Using Algebraic Expressions

j: surface area and volume of regular solids (right prisms, triangular prism, and cylinder)

- Prisms and Cylinders
- Pyramids and Cones
- Surface and Lateral Areas of Prisms and Cylinders
- Surface and Lateral Areas of Pyramids and Cones

5: construction, views, and nets of 3D objects

- Surface and Lateral Areas of Prisms and Cylinders
- Surface and Lateral Areas of Pyramids and Cones

k: theoretical probability with two independent events

- Independent and Dependent Events
- Theoretical and Experimental Probability

l: financial literacy - best buys (e.g., coupons, proportions, unit price, products, and services)

- Household Energy Usage
- Percent of Change