

British Columbia Learning Standards > Mathematics (2015)**British Columbia**

- Grade 8
- ☰ *Numbers can be represented in many forms and reflect different relationships.*
 - **BrainPOP Mixed Numbers**
 - **BrainPOP Fractions**
 - ☰ • **BrainPOP Standard and Scientific Notation**
 - **BrainPOP Converting Fractions to Decimals**
 - **GameUp Battleship Numberline**

British Columbia Learning Standards > Mathematics (2015)**British Columbia**

- Grade 8
- ☰ *Numeracy helps us to see patterns, communicate ideas, and solve problems.*
 - **BrainPOP Word Problems**
 - **GameUp Lure of the Labyrinth: Employee Lounge**
 - **GameUp Lure of the Labyrinth: Mine Shaft**

British Columbia Learning Standards > Mathematics (2015)**British Columbia**

- Grade 8
- ☰ *Patterns allow us to see relationships and develop generalizations.*
 - **BrainPOP Fibonacci Sequence**
 - **BrainPOP Problem Solving Using Tables**

British Columbia Learning Standards > Mathematics (2015)**British Columbia**

- Grade 8
- ☰ *Geometry and measurement empower us to make meaning of the world.*
 - **BrainPOP Geometry**
 - **BrainPOP Metric Units**
 - **BrainPOP Polyhedrons**

British Columbia Learning Standards > Mathematics (2015)**British Columbia**

- Grade 8
- ☰ *We can apply mathematics to inquiry questions and use it to communicate information and data.*
 - **BrainPOP Game Theory**

British Columbia Learning Standards > Mathematics (2015)**British Columbia**

- Grade 8
- ☰ Reasoning and analyzing
 - ▶ *Inductively and deductively reason and use logic to explore, make connections, predict, analyze, generalize, and make conclusions*
 - **BrainPOP Using a Calculator**
 - **BrainPOP Logic Gates**

British Columbia Learning Standards > Mathematics (2015)**British Columbia**

- Grade 8
- ☰ Reasoning and analyzing
 - ▶ *Develop and apply mental math strategies and estimate amounts and outcomes*
 - **BrainPOP Estimating**
 - **BrainPOP Binary**
 - **GameUp Dig It**
 - **GameUp Battleship Numberline**
 - ☰ • **GameUp Gate**

- **GameUp [Multiplication Blocks](#)**

British Columbia

British Columbia Learning Standards > Mathematics (2015)

Grade 8

- ☉ Reasoning and analyzing
 - ▶ *Use tools or technology to explore and create patterns and relationships, and test conjectures*
 - **BrainPOP [Using a Calculator](#)**
 - **BrainPOP [Problem Solving Using Tables](#)**
 - **BrainPOP [Fibonacci Sequence](#)**
 - **GameUp [Tynker: Sketch Racer](#)**

British Columbia

British Columbia Learning Standards > Mathematics (2015)

Grade 8

- ☉ Understanding and solving
 - ▶ *Implement multiple strategies to solve problems in both abstract and real-life situations using different cultural perspectives*
 - **BrainPOP [Game Theory](#)**
 - **BrainPOP [Word Problems](#)**
 - ☉
 - **BrainPOP [Problem Solving Using Tables](#)**
 - **BrainPOP [Using a Calculator](#)**
 - **GameUp [Lure of the Labyrinth: Employee Lounge](#)**
 - **GameUp [Lure of the Labyrinth: Mine Shaft](#)**

British Columbia

British Columbia Learning Standards > Mathematics (2015)

Grade 8

- ☉ Understanding and solving
 - ▶ *Develop, construct, and apply mathematical understanding through play, inquiry, and problem solving*
 - **BrainPOP [Game Theory](#)**
 - **BrainPOP [Word Problems](#)**
 - ☉
 - **BrainPOP [Problem Solving Using Tables](#)**
 - **BrainPOP [Using a Calculator](#)**
 - **GameUp [Lure of the Labyrinth: Employee Lounge](#)**
 - **GameUp [Lure of the Labyrinth: Mine Shaft](#)**

British Columbia

British Columbia Learning Standards > Mathematics (2015)

Grade 8

- ☉ Understanding and solving
 - ▶ *Engage in problem-solving experiences that are connected to place, story, and cultural practices relevant to the local community*
 - **BrainPOP [Game Theory](#)**
 - **BrainPOP [Word Problems](#)**

British Columbia

British Columbia Learning Standards > Mathematics (2015)

Grade 8

- ☉ Communicating and representing
 - ▶ *Use mathematical vocabulary and language to contribute to mathematical discussions*
 - **BrainPOP [Game Theory](#)**
 - **BrainPOP [Inequalities](#)**
 - **GameUp [Game Over Gopher](#)**

- British Columbia**
Grade 8
- British Columbia Learning Standards > Mathematics (2015)**
- Communicating and representing
 - Communicate in a variety of ways to explain, clarify, and justify mathematical ideas*
 - BrainPOP Game Theory**

- British Columbia**
Grade 8
- British Columbia Learning Standards > Mathematics (2015)**
- Communicating and representing
 - Develop mathematical understanding through concrete, pictorial, and symbolic representations*
 - BrainPOP Inequalities**
 - BrainPOP Using a Calculator**

- British Columbia**
Grade 8
- British Columbia Learning Standards > Mathematics (2015)**
- Communicating and representing
 - Use technology appropriately to record, communicate, and represent thinking*
 - BrainPOP Game Theory**
 - BrainPOP Using a Calculator**

- British Columbia**
Grade 8
- British Columbia Learning Standards > Mathematics (2015)**
- Connecting and reflecting
 - Explore, apply, and connect concepts to each other, to other disciplines, and to the real world*
 - BrainPOP Game Theory**
 - BrainPOP Word Problems**
 - GameUp Budget Hero**

- British Columbia**
Grade 8
- British Columbia Learning Standards > Mathematics (2015)**
- Connecting and reflecting
 - Apply cultural perspectives of First Peoples to the concepts of locating, measuring, and numbering*
 - BrainPOP Game Theory**

- British Columbia**
Grade 8
- British Columbia Learning Standards > Mathematics (2015)**
- logic and patterns to solve games and puzzles*
 - BrainPOP Problem Solving Using Tables**
 - BrainPOP Logic Gates**
 - BrainPOP Word Problems**
 - GameUp Tynker: Sketch Racer**

- British Columbia**
Grade 8
- British Columbia Learning Standards > Mathematics (2015)**
- percents less than 1 and greater than 100 (decimal and fractional percents)*
 - BrainPOP Percents**
 - BrainPOP Fractions**
 - interest*
 - BrainPOP Interest**
 - BrainPOP Converting Fractions to Decimals**
 - BrainPOP Decimals**

- BrainPOP [Adding and Subtracting Fractions](#)
- BrainPOP [Multiplying and Dividing Fractions](#)
- BrainPOP [Rational and Irrational Numbers](#)
- BrainPOP [Debt](#)
- BrainPOP [Mortgages](#)
- GameUp [Drake Equation](#)
- GameUp [Flower Power](#)
- GameUp [Budget Hero](#)

British Columbia

Grade 8

British Columbia Learning Standards > Mathematics (2015)

- ☰ *perfect squares and cubes*
 - BrainPOP [Square Roots](#)

British Columbia

Grade 8

British Columbia Learning Standards > Mathematics (2015)

- ☰ *rates and proportional reasoning, ratio, proportions, and percent*
 - BrainPOP [Proportions](#)
 - BrainPOP [Ratios](#)
- ☰ *distance, rate, and time*
 - BrainPOP [Distance, Rate, and Time](#)
 - BrainPOP [Percents](#)
 - BrainPOP [Word Problems](#)
 - BrainPOP [Graphing Linear Equations](#)
 - BrainPOP [Comparing Prices](#)
 - BrainPOP [Similar Figures](#)
 - BrainPOP [Scale Drawing](#)
 - BrainPOP [Interest](#)
 - BrainPOP [Debt](#)
 - BrainPOP [Mortgages](#)
 - BrainPOP [Compound Events](#)
 - BrainPOP [Problem Solving Using Tables](#)
- GameUp [Lure of the Labyrinth: Employee Cafeteria](#)
- GameUp [Dig It](#)
- ☰ *ratio*
 - GameUp [Ratio Rumble](#)
 - GameUp [Budget Hero](#)
 - GameUp [Drake Equation](#)

British Columbia

Grade 8

British Columbia Learning Standards > Mathematics (2015)

- ☰ *operations with fractions (addition, subtraction, multiplication, division, and order of operations)*
 - BrainPOP [Adding and Subtracting Fractions](#)
 - BrainPOP [Multiplying and Dividing Fractions](#)
- ☰ *probability*
 - BrainPOP [Mixed Numbers](#)
 - BrainPOP [Independent and Dependent Events](#)
 - BrainPOP [Order of Operations](#)
 - BrainPOP [Compound Events](#)
- GameUp [Refraction](#)
- GameUp [Drop Zone](#)

British Columbia Learning Standards > Mathematics (2015)

British Columbia

Grade 8

- ☰ *expressions and equations, writing and evaluating using substitution*
 - **BrainPOP Equations with Variables**
 - **BrainPOP Two-Step Equations**
 - **BrainPOP Graphing and Solving Inequalities**
 - **BrainPOP Inequalities**
- ☰
 - **BrainPOP Word Problems**
 - **BrainPOP Multiplying and Dividing Exponents**
 - **BrainPOP Order of Operations**

British Columbia Learning Standards > Mathematics (2015)

British Columbia

Grade 8

- ☰ *two-step equations with integer coefficients, constants, and solutions*
 - **BrainPOP Two-Step Equations**

British Columbia Learning Standards > Mathematics (2015)

British Columbia

Grade 8

- ☰ *numerical proportional reasoning*
 - **GameUp Dig It**

British Columbia Learning Standards > Mathematics (2015)

British Columbia

Grade 8

- ☰ *surface area and volume of regular solids (right prisms, triangular prism, and cylinder)*
 - **BrainPOP Volume of Prisms**
 - **BrainPOP Volume of Cylinders**
 - **BrainPOP Geometry**

British Columbia Learning Standards > Mathematics (2015)

British Columbia

Grade 8

- ☰ *construction, views, and nets of 3D objects*
 - **BrainPOP Geometry**
 - **BrainPOP Polyhedrons**
 - **BrainPOP Volume of Prisms**
 - **BrainPOP 3D Printing**

British Columbia Learning Standards > Mathematics (2015)

British Columbia

Grade 8

- ☰ *theoretical probability with two independent events*
 - **BrainPOP Basic Probability**
 - **BrainPOP Independent and Dependent Events**
 - **BrainPOP Compound Events**

British Columbia Learning Standards > Mathematics (2015)

British Columbia

Grade 8

- ☰ *financial literacy - best buys (e.g., coupons, proportions, unit price, products, and services)*
 - **BrainPOP Banking**
 - **BrainPOP Budgets**
 - **BrainPOP Mortgages**

British Columbia Learning Outcomes > Mathematics (2006)

British Columbia

Grade 8

- ☰ Number
 - ▶ **A1** *demonstrate an understanding of perfect squares and square roots, concretely, pictorially, and*

symbolically (limited to whole numbers)

- **BrainPOP Square Roots**

British Columbia

Grade 8

British Columbia Learning Outcomes > Mathematics (2006)

⊖ Number

▶ **A3** *demonstrate an understanding of percents greater than or equal to 0%*

- **BrainPOP Percents**
- **BrainPOP Interest**

- **GameUp Drake Equation**

British Columbia

Grade 8

British Columbia Learning Outcomes > Mathematics (2006)

⊖ Number

▶ **A4** *demonstrate an understanding of ratio and rate*

- **BrainPOP Word Problems**
- **BrainPOP Interest**
- **BrainPOP Comparing Prices**
- **BrainPOP Ratios**

⊕ 3 more resources

British Columbia

Grade 8

British Columbia Learning Outcomes > Mathematics (2006)

⊖ Number

▶ **A5** *solve problems that involve rates, ratios, and proportional reasoning*

- **BrainPOP Proportions**
- **BrainPOP Word Problems**

⊕ 11 more resources

- **GameUp Lure of the Labyrinth: Employee Cafeteria**
- **GameUp Ratio Rumble**

⊕ 2 more resources

British Columbia

Grade 8

British Columbia Learning Outcomes > Mathematics (2006)

⊖ Number

▶ **A6** *demonstrate an understanding of multiplying and dividing positive fractions and mixed numbers, concretely, pictorially, and symbolically*

- **BrainPOP Multiplying and Dividing Fractions**
- **BrainPOP Adding and Subtracting Fractions**
- **BrainPOP Independent and Dependent Events**

- **GameUp Refraction**

British Columbia

Grade 8

British Columbia Learning Outcomes > Mathematics (2006)

⊖ Number

▶ **A7** *demonstrate an understanding of multiplication and division of integers, concretely, pictorially, and symbolically*

- **BrainPOP Factoring**

- [GameUp Lure of the Labyrinth: Employee Cafeteria](#)
- [GameUp Lure of the Labyrinth: Employee Lounge](#)
- [GameUp Gate](#)

British Columbia Learning Outcomes > Mathematics (2006)

British Columbia

Grade 8

- ⊖ Patterns and Relations
 - ▶ **B1** *graph and analyse two-variable linear relations*
 - [BrainPOP Graphing Linear Equations](#)
 - [BrainPOP Equations with Variables](#)

British Columbia Learning Outcomes > Mathematics (2006)

British Columbia

Grade 8

- ⊖ Patterns and Relations
 - ▶ **B2** model and solve problems using linear equations of the form
 - ▶ $ax = b$
 - [BrainPOP Equations with Variables](#)
 - [BrainPOP Two-Step Equations](#)
 - [BrainPOP Word Problems](#)
 - [BrainPOP Inequalities](#)

British Columbia Learning Outcomes > Mathematics (2006)

British Columbia

Grade 8

- ⊖ Patterns and Relations
 - ▶ **B2** model and solve problems using linear equations of the form
 - ▶ $x / a = b$, *a is not equal to 0*
 - [BrainPOP Equations with Variables](#)
 - [BrainPOP Two-Step Equations](#)
 - [BrainPOP Word Problems](#)
 - [BrainPOP Inequalities](#)

British Columbia Learning Outcomes > Mathematics (2006)

British Columbia

Grade 8

- ⊖ Patterns and Relations
 - ▶ **B2** model and solve problems using linear equations of the form
 - ▶ $a(x + b) = c$
 - [BrainPOP Equations with Variables](#)
 - [BrainPOP Two-Step Equations](#)
 - [BrainPOP Distributive Property](#)

British Columbia Learning Outcomes > Mathematics (2006)

British Columbia

Grade 8

- ⊖ Patterns and Relations
 - ▶ **B2** model and solve problems using linear equations of the form
 - ▶ *concretely, pictorially, and symbolically, where a, b, and c are integers*
 - [BrainPOP Adding and Subtracting Integers](#)
 - [BrainPOP Two-Step Equations](#)
 - [BrainPOP Inequalities](#)
 - [BrainPOP Word Problems](#)
 - [BrainPOP Associative Property](#)

British Columbia Learning Outcomes > Mathematics (2006)

British Columbia

- Grade 8
- ⊖ Shape and Space
 - ▶ **C1** *develop and apply the Pythagorean theorem to solve problems*
 - **BrainPOP [Pythagorean Theorem](#)**

British Columbia Learning Outcomes > Mathematics (2006)

- Grade 8
- ⊖ Shape and Space
 - ▶ **C3** determine the surface area of
 - ▶ *right rectangular prisms*
 - **BrainPOP [Volume of Prisms](#)**

British Columbia Learning Outcomes > Mathematics (2006)

- Grade 8
- ⊖ Shape and Space
 - ▶ **C3** determine the surface area of
 - ▶ *right triangular prisms*
 - **BrainPOP [Volume of Prisms](#)**

British Columbia Learning Outcomes > Mathematics (2006)

- Grade 8
- ⊖ Shape and Space
 - ▶ **C3** determine the surface area of
 - ▶ *right cylinders to solve problems*
 - **BrainPOP [Volume of Cylinders](#)**

British Columbia Learning Outcomes > Mathematics (2006)

- Grade 8
- ⊖ Shape and Space
 - ▶ **C4** *develop and apply formulas for determining the volume of right prisms and right cylinders*
 - **BrainPOP [Volume of Prisms](#)**
 - **BrainPOP [Volume of Cylinders](#)**

British Columbia Learning Outcomes > Mathematics (2006)

- Grade 8
- ⊖ Shape and Space
 - ▶ **C5** *draw and interpret top, front, and side views of 3-D objects composed of right rectangular prisms*
 - **BrainPOP [Volume of Prisms](#)**

British Columbia Learning Outcomes > Mathematics (2006)

- Grade 8
- ⊖ Shape and Space
 - ▶ **C6** demonstrate an understanding of tessellation by
 - ▶ *explaining the properties of shapes that make tessellating possible*
 - **BrainPOP [Geometry](#)**

British Columbia Learning Outcomes > Mathematics (2006)

- Grade 8
- ⊖ Statistics and Probability
 - ▶ **D1** *critique ways in which data is presented*
 - **BrainPOP [Graphs](#)**

British Columbia Learning Outcomes > Mathematics (2006)

- Grade 8
- ⊖ Statistics and Probability

▶ **D2** *solve problems involving the probability of independent events*

- **BrainPOP Basic Probability**
- **BrainPOP Independent and Dependent Events**
- **BrainPOP Compound Events**