

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

Grade 8

- ⊖ *Cells are a basic unit of life.*
 - **BrainPOP Cells**
 - **GameUp Control of the Cell Cycle**

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

Grade 8

- ⊖ *The theory of plate tectonics is the unifying theory that explains Earth's geological processes.*
 - **BrainPOP Mountains**
 - **BrainPOP Plate Tectonics**
 - **BrainPOP Ocean Floor**
 - **BrainPOP Volcanoes**

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

Grade 8

- ⊖ Questioning and predicting
 - ▶ *Make observations aimed at identifying their own questions about the natural world*
 - **BrainPOP Science Projects**
 - **BrainPOP Scientific Method**

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

Grade 8

- ⊖ Questioning and predicting
 - ▶ *Identify a question to answer or a problem to solve through scientific inquiry*
 - **BrainPOP Science Projects**
 - **BrainPOP Scientific Method**
 - **GameUp Quandary**
 - **GameUp Virtual Labs: Disposable Lab Equipment**
 - ⊖
 - **GameUp Virtual Labs: Gram Staining**
 - **GameUp Virtual Labs: Testing for Corn Mold**
 - **GameUp Virtual Labs: Using the Microscope**

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

Grade 8

- ⊖ Questioning and predicting
 - ▶ *Formulate alternative "If...then" hypotheses based on their questions*
 - **BrainPOP Scientific Method**
 - **BrainPOP Science Projects**
 - **GameUp Cool Science Careers: Imagine Yourself**
 - **GameUp Guts and Bolts**

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

Grade 8

- ⊖ Questioning and predicting
 - ▶ *Make predictions about the findings of their inquiry*
 - **BrainPOP Science Projects**
 - **BrainPOP Scientific Method**
 - **GameUp CSI: Flight Adventure's Flight School**

British Columbia

Grade 8

British Columbia Learning Standards > Science (2015)

- ⊖ Planning and conducting
 - ▶ *Collaboratively plan a range of investigation types, including field work and experiments, to answer their questions or solve problems they have identified*
 - **BrainPOP Scientific Method**
 - **BrainPOP Science Projects**

British Columbia

Grade 8

British Columbia Learning Standards > Science (2015)

- ⊖ Planning and conducting
 - ▶ *Measure and control variables through fair tests*
 - **BrainPOP Science Projects**
 - **BrainPOP Scientific Method**
 - **GameUp Cool Science Careers: Imagine Yourself**

British Columbia

Grade 8

British Columbia Learning Standards > Science (2015)

- ⊖ Planning and conducting
 - ▶ *Observe, measure, and record data (qualitative and quantitative), using equipment, including digital technologies, with accuracy appropriate to the task*
 - **BrainPOP Precision and Accuracy**
 - **BrainPOP Scientific Method**
 - ⊖
 - **BrainPOP Temperature**
 - **BrainPOP Microscopes**
 - **BrainPOP Science Projects**
 - **BrainPOP Measuring Matter**
 - **GameUp Virtual Labs: Using the Microscope**
 - **GameUp Virtual Labs: Disposable Lab Equipment**
 - ⊖
 - **GameUp Virtual Labs: Testing for Corn Mold**
 - **GameUp Virtual Labs: Gram Staining**

British Columbia

Grade 8

British Columbia Learning Standards > Science (2015)

- ⊖ Planning and conducting
 - ▶ *Ensure that safety and ethical guidelines are followed in their investigations*
 - **BrainPOP Science Projects**
 - **BrainPOP Scientific Method**
 - **BrainPOP Dolly the Sheep**
 - **GameUp Cool Science Careers: Imagine Yourself**
 - **GameUp Virtual Labs: Disposable Lab Equipment**
 - ⊖
 - **GameUp Virtual Labs: Gram Staining**
 - **GameUp Virtual Labs: Testing for Corn Mold**
 - **GameUp Virtual Labs: Using the Microscope**

British Columbia

Grade 8

British Columbia Learning Standards > Science (2015)

- ⊖ Processing and analyzing data and information
 - ▶ *Construct and use a range of methods to represent patterns or relationships in data, including tables, graphs, key, scale models, and digital technologies as appropriate*

- [BrainPOP Problem Solving Using Tables](#)
- [BrainPOP Graphing Linear Equations](#)
- [BrainPOP Distance, Rate, and Time](#)

British Columbia Learning Standards > Science (2015)

- Grade 8
- ☰ Processing and analyzing data and information
 - ▶ *Seek patterns and connections in data from their own investigations and secondary sources*
 - [BrainPOP Science Projects](#)
 - [BrainPOP Scientific Method](#)
 - [BrainPOP Problem Solving Using Tables](#)

British Columbia Learning Standards > Science (2015)

- Grade 8
- ☰ Evaluating
 - ▶ *Reflect on their investigation methods, including the adequacy of controls on variables and the quality of the data collected*
 - [BrainPOP Science Projects](#)
 - [BrainPOP Scientific Method](#)

British Columbia Learning Standards > Science (2015)

- Grade 8
- ☰ Evaluating
 - ▶ *Identify possible sources of error and suggest improvements to their investigation methods*
 - [BrainPOP Science Projects](#)
 - [BrainPOP Scientific Method](#)

British Columbia Learning Standards > Science (2015)

- Grade 8
- ☰ Evaluating
 - ▶ *Demonstrate an understanding and appreciation of evidence (qualitative and quantitative)*
 - [BrainPOP Scientific Method](#)
 - [BrainPOP Science Projects](#)

British Columbia Learning Standards > Science (2015)

- Grade 8
- ☰ Evaluating
 - ▶ *Exercise a healthy, informed skepticism and use scientific knowledge and findings for their own investigations to evaluate claims in secondary sources*
 - [BrainPOP Critical Reasoning](#)
 - [BrainPOP Scientific Method](#)
 - [BrainPOP Science Projects](#)

British Columbia Learning Standards > Science (2015)

- Grade 8
- ☰ Evaluating
 - ▶ *Consider social, ethical, and environmental implications of the findings from their own and others's investigations*
 - [BrainPOP Scientific Method](#)
 - [BrainPOP Science Projects](#)
 - [GameUp Cool Science Careers: Imagine Yourself](#)

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

- Grade 8
- ⊖ Applying and innovating
 - ▶ *Generate and introduce new or refined ideas when problem solving*
 - **BrainPOP Science Projects**

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

- Grade 8
- ⊖ Communicating
 - ▶ *Communicate ideas, findings, and solutions to problems, using scientific language, representations, and digital technologies as appropriate*
 - **BrainPOP Scientific Method**
 - **BrainPOP Science Projects**
 - **BrainPOP Problem Solving Using Tables**

 - **GameUp Virtual Labs: Disposable Lab Equipment**
 - **GameUp Virtual Labs: Gram Staining**
 - ⊖ • **GameUp Virtual Labs: Testing for Corn Mold**
 - **GameUp Virtual Labs: Using the Microscope**

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

- Grade 8
- ⊖ Communicating
 - ▶ *Express and reflect on a variety of experiences and perspectives of place*
 - **BrainPOP Submarines**
 - **BrainPOP Leonardo da Vinci**
 - ⊖ • **BrainPOP Cell Phone**
 - **BrainPOP International Space Station**
 - **BrainPOP Marie Curie**
 - **BrainPOP Cars**

 - **GameUp Time Zone X: Leonardo Da Vinci**
 - **GameUp Time Zone X: International Space Station**

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

- Grade 8
- ⊖ *characteristics of life*
 - **BrainPOP Birds**
 - **BrainPOP Metamorphosis**
 - ⊖ • **BrainPOP Mollusks**
 - **BrainPOP Underwater World**
 - **BrainPOP Conditioning**
 - **BrainPOP Rivers**

 - **GameUp Construct-a-Saurus**

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

- Grade 8
- ⊖ *cell theory and types of cells*
 - **BrainPOP Cell Structures**
 - **BrainPOP Cells**
 - ⊖ • **BrainPOP Cell Specialization**
 - **BrainPOP Protists**

- **BrainPOP Photosynthesis**
- **BrainPOP Algae**
- **BrainPOP Asexual Reproduction**
- **BrainPOP Protozoa**
- **BrainPOP Stem Cells**

- **GameUp Microbes**
- **GameUp Control of the Cell Cycle**

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 8

☰ *photosynthesis and cellular respiration*

- **BrainPOP Algae**
- **BrainPOP Metabolism**
- ☰ • **BrainPOP Photosynthesis**
- **BrainPOP Plant Growth**
- **BrainPOP Cells**
- **BrainPOP Energy Pyramid**

- **GameUp The Ruby Realm**
- **GameUp What Plants Need**
- **GameUp Close-Knit Neighbors**

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 8

☰ the relationship of micro-organisms with living things:

▶ *basic functions of the immune system*

- **BrainPOP Flu and Flu Vaccine**
- **BrainPOP Lymphatic System**
- **BrainPOP Vaccines**
- **BrainPOP Allergies**

- ☰ • **BrainPOP Boogers**
- **BrainPOP Touch**

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 8

☰ the relationship of micro-organisms with living things:

▶ *vaccination and antibiotics*

- **BrainPOP Immune System**
- **BrainPOP Antibiotic Resistance**
- **BrainPOP Vaccines**

- **GameUp MedMyst Animal Alert!**

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 8

☰ the relationship of micro-organisms with living things:

▶ *impacts of epidemics and pandemics on human populations*

- **BrainPOP Anthrax**
- **BrainPOP Avian Flu**

British Columbia Learning Standards > Science (2015)

British Columbia

- Grade 8
- ⊖ atomic theory and models
 - ▶ *protons, neutrons, and quarks*
 - **BrainPOP Atoms**
 - **BrainPOP Isotopes**
 - **BrainPOP Periodic Table of Elements**
 - **BrainPOP Radioactivity**
 - ⊖
 - **BrainPOP Electromagnetic Spectrum**
 - **BrainPOP Marie Curie**

British Columbia Learning Standards > Science (2015)

- Grade 8
- ⊖ atomic theory and models
 - ▶ *electrons and leptons*
 - **BrainPOP Ions**
 - **BrainPOP Static Electricity**

British Columbia Learning Standards > Science (2015)

- Grade 8
- ⊖ *types and effects of electromagnetic radiation*
 - **BrainPOP Electromagnetic Spectrum**
 - **BrainPOP Waves**
 - **BrainPOP Lasers**
 - **BrainPOP Light**
 - ⊖
 - **BrainPOP Radio**
 - **BrainPOP Color**

British Columbia Learning Standards > Science (2015)

- Grade 8
- ⊖ light:
 - ▶ *properties*
 - **BrainPOP Refraction and Diffraction**
 - **BrainPOP Color**
 - **BrainPOP Electromagnetic Spectrum**
 - **BrainPOP Rainbows**

British Columbia Learning Standards > Science (2015)

- Grade 8
- ⊖ light:
 - ▶ *behaviours*
 - **BrainPOP Light**
 - **BrainPOP Cameras**
 - **BrainPOP Color**
 - **BrainPOP Electromagnetic Spectrum**
 - ⊖
 - **BrainPOP Eyes**
 - **BrainPOP Rainbows**
 - **BrainPOP Refraction and Diffraction**
 - **BrainPOP Telescopes**

British Columbia Learning Standards > Science (2015)

- Grade 8
- ⊖ light:
 - ▶ *ways of sensing*

- [BrainPOP Eyes](#)
- [BrainPOP Rainbows](#)
- [BrainPOP Color](#)
- [BrainPOP Electromagnetic Spectrum](#)
- [BrainPOP Microscopes](#)

British Columbia Learning Standards > Science (2015)

Grade 8

- ⊖ *plate tectonic movement*
 - [BrainPOP Mountains](#)
 - [BrainPOP Plate Tectonics](#)
 - [BrainPOP Volcanoes](#)

British Columbia Learning Standards > Science (2015)

Grade 8

- ⊖ *major geological events of local significance*
 - [BrainPOP Mountains](#)
 - [BrainPOP Ocean Floor](#)
 - [BrainPOP Volcanoes](#)
 - [BrainPOP Earthquakes](#)

British Columbia Learning Standards > Science (2015)

Grade 8

- ⊖ *layers in Earth*
 - [BrainPOP Earth's Structure](#)
 - [BrainPOP Soil](#)
 - [BrainPOP Volcanoes](#)

British Columbia Learning Outcomes > Science (2006)

Grade 8

- ⊖ Processes of Science
 - ▶ **A1** *demonstrate safe procedures*
 - [GameUp Virtual Labs: Disposable Lab Equipment](#)
 - [GameUp Virtual Labs: Gram Staining](#)
 - [GameUp Virtual Labs: Testing for Corn Mold](#)
 - [GameUp Virtual Labs: Using the Microscope](#)

British Columbia Learning Outcomes > Science (2006)

Grade 8

- ⊖ Processes of Science
 - ▶ **A2** *perform experiments using the scientific method*
 - [BrainPOP Galileo Galilei](#)
 - [BrainPOP Scientific Method](#)
- ⊕ 2 more resources
 - [GameUp Quandary](#)
 - [GameUp Virtual Labs: Disposable Lab Equipment](#)
- ⊕ 2 more resources

British Columbia Learning Outcomes > Science (2006)

Grade 8

- ⊖ Processes of Science
 - ▶ **A3** *represent and interpret information in graphic form*

- [BrainPOP Problem Solving Using Tables](#)

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

Processes of Science

▶ **A5** *demonstrate scientific literacy*

- [BrainPOP Critical Reasoning](#)
- [BrainPOP Galileo Galilei](#)

- [GameUp Virtual Labs: Disposable Lab Equipment](#)
- [GameUp Virtual Labs: Gram Staining](#)

+ 2 more resources

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

Processes of Science

▶ **A6** *demonstrate ethical, responsible, cooperative behaviour*

- [GameUp Cool Science Careers: Imagine Yourself](#)

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

Processes of Science

▶ **A7** *describe the relationship between scientific principles and technology*

- [BrainPOP Robots](#)
- [BrainPOP Television](#)
- [BrainPOP International Space Station](#)

- [GameUp Time Zone X: International Space Station](#)

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

Processes of Science

▶ **A8** *demonstrate competence in the use of technologies specific to investigative procedures and research*

- [BrainPOP Science Projects](#)
- [BrainPOP Scientific Method](#)
- [BrainPOP 3D Printing](#)
- [BrainPOP Computer Programming](#)

+ 2 more resources

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

Life Science: Cells and Systems

▶ **B1** *demonstrate knowledge of the characteristics of living things*

- [BrainPOP Birds](#)
- [BrainPOP Ecosystems](#)

+ 5 more resources

- [GameUp Construct-a-Saurus](#)

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

Life Science: Cells and Systems

▶ **B2** relate the main features and properties of cells to their functions

- **BrainPOP Active Transport**
- **BrainPOP Cell Specialization**

+ 3 more resources

- **GameUp Microbes**

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Life Science: Cells and Systems

▶ **B3** explain the relationship between cells, tissues, organs, and organ systems

- **BrainPOP Urinary System**
- **BrainPOP Circulatory System**

+ 10 more resources

- **GameUp Guts and Bolts**
- **GameUp Control of the Cell Cycle**

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Life Science: Cells and Systems

▶ **B4** explain the functioning of the immune system, and the roles of the primary, secondary, and tertiary defence systems

- **BrainPOP Vaccines**
- **BrainPOP Lymphatic System**
- **BrainPOP Allergies**
- **BrainPOP Blood**

+ 4 more resources

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Physical Science

▶ **C1** demonstrate knowledge of the behaviour of waves

- **BrainPOP Refraction and Diffraction**
- **BrainPOP Radio**

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Physical Science

▶ **C2** explain the properties of visible light

- **BrainPOP Light**
- **BrainPOP Cameras**
- **BrainPOP Color**
- **BrainPOP Electromagnetic Spectrum**

+ 4 more resources

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Physical Science

▶ **C3** compare visible light to other types of electromagnetic radiation

- **BrainPOP Color**
- **BrainPOP Electromagnetic Spectrum**
- **BrainPOP Lasers**

- [BrainPOP Light](#)

+ 2 more resources

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Physical Science

▶ **C4** *explain how human vision works*

- [BrainPOP Eyes](#)
- [BrainPOP Faces](#)
- [BrainPOP Vision Problems](#)

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Physical Science

▶ **C5** *explain the concept of force*

- [BrainPOP Force](#)
- [BrainPOP Newton's Laws of Motion](#)

+ 3 more resources

- [GameUp CSI: Flight Adventure's Flight School](#)
- [GameUp CSI: Flight Adventure's Forces of Flight](#)

+ 4 more resources

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Physical Science

▶ **C6** *describe the relationship between solids, liquids, and gases, using the kinetic molecular theory*

- [BrainPOP Matter Changing States](#)
- [BrainPOP States of Matter](#)

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Physical Science

▶ **C7** *determine the density of various substances*

- [BrainPOP Measuring Matter](#)
- [BrainPOP Customary Units](#)
- [BrainPOP Buoyancy](#)

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Earth and Space Science: Water Systems on Earth

▶ **D1** *explain the significance of salinity and temperature in the world's oceans*

- [BrainPOP Oceans](#)
- [BrainPOP Ocean Currents](#)

British Columbia

Grade 8

British Columbia Learning Outcomes > Science (2006)

– Earth and Space Science: Water Systems on Earth

▶ **D2** *describe how water and ice shape the landscape*

- [BrainPOP Erosion](#)
- [BrainPOP Ice Age](#)
- [BrainPOP Floods](#)
- [BrainPOP Natural Disasters](#)

+ 3 more resources

**British
Columbia**

British Columbia Learning Outcomes > Science (2006)

Grade 8

⊖ Earth and Space Science: Water Systems on Earth

▶ **D3** *describe factors that affect productivity and species distribution in aquatic environments*

- **BrainPOP Everglades**
- **BrainPOP Classification**