

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

Grade 7

- ⊖ *The theory of evolution by natural selection provides an explanation for the diversity and survival of living things.*
 - **BrainPOP Charles Darwin**
 - **BrainPOP Natural Selection**
 - **BrainPOP Bats**
 - **BrainPOP Human Evolution**

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

Grade 7

- ⊖ *Elements consist of one type of atom, and compounds consist of atoms of different elements chemically combined.*
 - **BrainPOP Chemical Bonds**
 - **BrainPOP Periodic Table of Elements**
 - **BrainPOP Atomic Model**
 - **BrainPOP Atoms**
 - ⊖ • **BrainPOP Compounds and Mixtures**
 - **BrainPOP Metals**
 - **BrainPOP Isotopes**
 - **BrainPOP Nanotechnology**

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

Grade 7

- ⊖ *The electromagnetic force produces both electricity and magnetism.*
 - **BrainPOP Electromagnets**
 - **BrainPOP Electricity**
 - **BrainPOP Electromagnetic Induction**
 - **BrainPOP Magnetism**
 - **BrainPOP Nikola Tesla**

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

Grade 7

- ⊖ *Earth and its climate have changed over geological time.*
 - **BrainPOP Ice Age**
 - **BrainPOP Geologic Time**
 - **BrainPOP Earth**

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

Grade 7

- ⊖ 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 7

- ⊖ 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

Grade 7

British Columbia Learning Standards > Science (2015)

- 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

Grade 7

British Columbia Learning Standards > Science (2015)

- 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 7

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 7

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 7

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 7

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 7

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

Grade 7

British Columbia Learning Standards > Science (2015)

- ☰ 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

Grade 7

British Columbia Learning Standards > Science (2015)

- ☰ Processing and analyzing data and information
 - ▶ *Use scientific understandings to identify relationships and draw conclusions*
 - **BrainPOP Critical Reasoning**

British Columbia

Grade 7

British Columbia Learning Standards > Science (2015)

- ☰ 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

Grade 7

British Columbia Learning Standards > Science (2015)

- ☰ Evaluating
 - ▶ *Identify possible sources of error and suggest improvements to their investigation methods*

- [BrainPOP Science Projects](#)
- [BrainPOP Scientific Method](#)

British Columbia

Grade 7

British Columbia Learning Standards > Science (2015)

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

British Columbia

Grade 7

British Columbia Learning Standards > Science (2015)

- ⊖ 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

Grade 7

British Columbia Learning Standards > Science (2015)

- ⊖ Evaluating
 - ▶ *Consider social, ethical, and environmental implications of the findings from their own and othersâ€™ investigations*
 - [BrainPOP Scientific Method](#)
 - [BrainPOP Science Projects](#)
 - [GameUp Cool Science Careers: Imagine Yourself](#)

British Columbia

Grade 7

British Columbia Learning Standards > Science (2015)

- ⊖ Applying and innovating
 - ▶ *Generate and introduce new or refined ideas when problem solving*
 - [BrainPOP Science Projects](#)

British Columbia

Grade 7

British Columbia Learning Standards > Science (2015)

- ⊖ 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](#)
- ⊕ 2 more resources

British Columbia

Grade 7

British Columbia Learning Standards > Science (2015)

- ⊖ Communicating
 - ▶ *Express and reflect on a variety of experiences and perspectives of place*
 - [BrainPOP Submarines](#)
 - [BrainPOP Cell Phone](#)

- [BrainPOP Cars](#)

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 7

- ☰ *natural selection through adaptive radiation - a proposed mechanism of the theory of evolution*
 - [BrainPOP Dolphins](#)

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 7

- ☰ *survival needs and interactions between organisms and the environment*
 - [BrainPOP Ecosystems](#)
 - [BrainPOP Underwater World](#)
- ☰
 - [BrainPOP Bats](#)
 - [BrainPOP Shark Attacks](#)
 - [BrainPOP Symbiosis](#)
 - [BrainPOP Body Chemistry](#)
 - [BrainPOP North Pole](#)
- [GameUp Construct-a-Saurus](#)
- [GameUp Food Chain Game](#)

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 7

- ☰ *elements and compounds are substances*
 - [BrainPOP Compounds and Mixtures](#)
 - [BrainPOP Metals](#)
 - [BrainPOP Chemical Bonds](#)
 - [BrainPOP Periodic Table of Elements](#)
- ☰
 - [BrainPOP Atoms](#)
 - [BrainPOP Isotopes](#)

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 7

- ☰ *chemical changes*
 - [BrainPOP Fireworks](#)
 - [BrainPOP Property Changes](#)

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 7

- ☰ *crystalline structure of solids*
 - [BrainPOP Matter Changing States](#)
 - [BrainPOP States of Matter](#)

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 7

- ☰ *electricity - generated in different ways with different environmental impacts*
 - [BrainPOP Wind Energy](#)

British Columbia Learning Standards > Science (2015)

British Columbia

Grade 7

- ☰ *electricity - used to generate magnetism*
 - [BrainPOP Electromagnetic Induction](#)
 - [BrainPOP Electromagnets](#)

- [BrainPOP Magnetism](#)
- [BrainPOP Electricity](#)
- [BrainPOP Nikola Tesla](#)

British Columbia Learning Standards > Science (2015)

Grade 7  *fossil records and geological dating*

- [BrainPOP Geologic Time](#)
- [BrainPOP Fossils](#)

British Columbia Learning Standards > Science (2015)

Grade 7  *evidence of climate change over geological time and the recent impacts of humans*

- [BrainPOP Ice Age](#)
- [BrainPOP Greenhouse Effect](#)
- [BrainPOP Global Warming](#)
- [BrainPOP Ozone Layer](#)
-  • [BrainPOP Humans and the Environment](#)
- [BrainPOP Water Pollution](#)
- [BrainPOP Geologic Time](#)



British Columbia Learning Outcomes > Science (2005)

Grade 7  Processes and Skills of Science
 *test a hypothesis by planning and conducting an experiment that controls for two or more variables*

- [BrainPOP Science Projects](#)
- [BrainPOP Scientific Method](#)



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

British Columbia Learning Outcomes > Science (2005)

Grade 7  Processes and Skills of Science
 *create models that help to explain scientific concepts and hypotheses*

- [BrainPOP Scientific Method](#)

British Columbia Learning Outcomes > Science (2005)

Grade 7  Life Science: Ecosystems
 *analyse the roles of organisms as part of interconnected food webs, populations, communities, and ecosystems*

- [BrainPOP Food Chains](#)
- [BrainPOP Ecosystems](#)

 5 more resources

- [GameUp Food Chain Game](#)
- [GameUp Food Fight](#)

 2 more resources

British Columbia Learning Outcomes > Science (2005)

Grade 7  Life Science: Ecosystems
 *assess survival needs and interactions between organisms and the environment*

- **BrainPOP Ecosystems**
- **BrainPOP Bats**

+ 7 more resources

- **GameUp Construct-a-Saurus**
- **GameUp Food Chain Game**

British Columbia

Grade 7

British Columbia Learning Outcomes > Science (2005)

– Life Science: Ecosystems

▶ *assess the requirements for sustaining healthy local ecosystems*

- **GameUp Close-Knit Neighbors**

British Columbia

Grade 7

British Columbia Learning Outcomes > Science (2005)

– Life Science: Ecosystems

▶ *evaluate human impacts on local ecosystems*

- **BrainPOP Global Warming**
- **BrainPOP Greenhouse Effect**

+ 10 more resources

- **GameUp Food Fight**
- **GameUp Invasion!!**

British Columbia

Grade 7

British Columbia Learning Outcomes > Science (2005)

– Physical Science: Chemistry

▶ *conduct investigations into properties of matter*

- **BrainPOP Measuring Matter**
- **BrainPOP Science Projects**
- **BrainPOP Scientific Method**

British Columbia

Grade 7

British Columbia Learning Outcomes > Science (2005)

– Physical Science: Chemistry

▶ *classify substances as elements, compounds, and mixtures*

- **BrainPOP Compounds and Mixtures**
- **BrainPOP Periodic Table of Elements**

+ 4 more resources

- **GameUp Virtual Labs: Acidifying Salsa**

British Columbia

Grade 7

British Columbia Learning Outcomes > Science (2005)

– Earth and Space Science: Earth's Crust

▶ *compare the characteristics of the Earth's core, mantle, and crust, and describe the formation of rocks*

- **BrainPOP Earth's Structure**
- **BrainPOP Rock Cycle**

British Columbia

Grade 7

British Columbia Learning Outcomes > Science (2005)

– Earth and Space Science: Earth's Crust

▶ *analyse the dynamics of tectonic plate movement and landmass formation*

- **BrainPOP Mountains**
- **BrainPOP Plate Tectonics**
- **BrainPOP Volcanoes**