Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Inquiry
  - Understandings about scientific inquiry and the ability to conduct inquiry are essential for living in the 21st century.
    - What tools, skills, knowledge, and dispositions are needed to conduct scientific inquiry?
      - **SPI 0707.Inq.1** *Design a simple experimental procedure with an identified control and appropriate variables.*
    - **BrainPOP Scientific Method**
    - **BrainPOP Science Projects**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Inquiry
  - Understandings about scientific inquiry and the ability to conduct inquiry are essential for living in the 21st century.
    - What tools, skills, knowledge, and dispositions are needed to conduct scientific inquiry?
      - **GLE 0707.Inq.1** *Design and conduct open-ended scientific investigations.*
    - **BrainPOP Science Projects**
    - **BrainPOP Scientific Method**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Inquiry
  - Understandings about scientific inquiry and the ability to conduct inquiry are essential for living in the 21st century.
    - What tools, skills, knowledge, and dispositions are needed to conduct scientific inquiry?
      - **SPI 0707.Inq.2** *Select tools and procedures needed to conduct a moderately complex experiment.*
    - **BrainPOP Science Projects**
    - **BrainPOP Scientific Method**
    - **BrainPOP Microscopes**
    - **GameUp Virtual Labs: Disposable Lab Equipment**
    - **GameUp Virtual Labs: Gram Staining**
  - 2 more resources

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Inquiry
  - Understandings about scientific inquiry and the ability to conduct inquiry are essential for living in the 21st century.
    - What tools, skills, knowledge, and dispositions are needed to conduct scientific inquiry?
      - **GLE 0707.Inq.2** *Use appropriate tools and techniques to gather, organize, analyze, and interpret data.*
    - **BrainPOP Science Projects**
    - **BrainPOP Scientific Method**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Inquiry
  - Understandings about scientific inquiry and the ability to conduct inquiry are essential for living in the 21st century.
    - What tools, skills, knowledge, and dispositions are needed to conduct scientific inquiry?
      - **SPI 0707.Inq.3** *Interpret and translate data in a table, graph, or diagram.*
    - **BrainPOP Problem Solving Using Tables**
    - **BrainPOP Distance, Rate, and Time**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Inquiry
  - Understandings about scientific inquiry and the ability to conduct inquiry are essential for living in the 21st century.
    - What tools, skills, knowledge, and dispositions are needed to conduct scientific inquiry?
      - **GLE 0707.Inq.3** *Synthesize information to determine cause and effect relationships between evidence and explanations.*
    - **BrainPOP Earth**
    - **BrainPOP Precision and Accuracy**
    - **BrainPOP Cars**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Inquiry
  - Understandings about scientific inquiry and the ability to conduct inquiry are essential for living in the 21st century.
    - What tools, skills, knowledge, and dispositions are needed to conduct scientific inquiry?
      - **SPI 0707.Inq.4** *Draw a conclusion that establishes a cause and effect relationship supported by evidence.*
    - **BrainPOP Precision and Accuracy**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Inquiry
  - Understandings about scientific inquiry and the ability to conduct inquiry are essential for living in the 21st century.
    - What tools, skills, knowledge, and dispositions are needed to conduct scientific inquiry?
      - **GLE 0707.Inq.4** *Recognize possible sources of bias and error, alternative explanations, and questions for further exploration.*
    - **BrainPOP Science Projects**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Inquiry
  - Understandings about scientific inquiry and the ability to conduct inquiry are essential for living in the 21st century.
    - What tools, skills, knowledge, and dispositions are needed to conduct scientific inquiry?
      - **GLE 0707.Inq.5** *Communicate scientific understanding using descriptions, explanations, and models.*
    - **BrainPOP Science Projects**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Technology & Engineering
  - Society benefits when engineers apply scientific discoveries to design materials and processes that develop into enabling technologies.
    - How do science concepts, engineering skills, and applications of technology improve the quality of life?
      - **SPI 0707.T/E.1** *Identify the tools and procedures needed to test the design features of a prototype.*
    - **BrainPOP Science Projects**
    - **BrainPOP 3D Printing**
    - **BrainPOP Microscopes**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Technology & Engineering

- Society benefits when engineers apply scientific discoveries to design materials and processes that develop into enabling technologies.
  - How do science concepts, engineering skills, and applications of technology improve the quality of life?
    - **GLE 0707.T/E.1** *Explore how technology responds to social, political, and economic needs.*
- **BrainPOP Robots**
- **BrainPOP Television**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Technology & Engineering
  - Society benefits when engineers apply scientific discoveries to design materials and processes that develop into enabling technologies.
    - How do science concepts, engineering skills, and applications of technology improve the quality of life?
      - **SPI 0707.T/E.2** *Evaluate a protocol to determine if the engineering design process was successfully applied.*
- **BrainPOP Critical Reasoning**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Technology & Engineering
  - Society benefits when engineers apply scientific discoveries to design materials and processes that develop into enabling technologies.
    - How do science concepts, engineering skills, and applications of technology improve the quality of life?
      - **GLE 0707.T/E.2** *Know that the engineering design process involves an ongoing series of events that incorporate design constraints, model building, testing, evaluating, modifying, and retesting.*
- **BrainPOP Building Basics**
- **BrainPOP Bridges**

3 more resources

- **GameUp CSI: Flight Adventure's Forces of Flight**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Technology & Engineering
  - Society benefits when engineers apply scientific discoveries to design materials and processes that develop into enabling technologies.
    - How do science concepts, engineering skills, and applications of technology improve the quality of life?
      - **SPI 0707.T/E.3** *Distinguish between the intended benefits and the unintended consequences of a new technology.*
- **BrainPOP Television**
- **BrainPOP Robots**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Technology & Engineering
  - Society benefits when engineers apply scientific discoveries to design materials and processes that develop into enabling technologies.
    - How do science concepts, engineering skills, and applications of technology improve the quality of life?
      - **GLE 0707.T/E.3** *Compare the intended benefits with the unintended consequences of a new technology.*
- **BrainPOP Cell Phone**

- **BrainPOP Nanotechnology**
- **BrainPOP Outer Solar System**
- **BrainPOP Refrigerator**

3 more resources

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Life Science

1 All living things are made of cells that perform functions necessary for life.

How are plant and animals cells organized to carry on the processes of life?

SPI 0707.1.1 *Identify and describe the function of the major plant and animal cell organelles.*

- **BrainPOP Cell Specialization**
- **BrainPOP Cell Structures**

5 more resources

- **GameUp Microbes**
- **GameUp What Plants Need**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

Life Science

1 All living things are made of cells that perform functions necessary for life.

How are plant and animals cells organized to carry on the processes of life?

GLE 0707.1.1 *Make observations and describe the structure and function of organelles found in plant and animal cells.*

- **BrainPOP Cell Specialization**
- **BrainPOP Cell Structures**

5 more resources

- **GameUp Microbes**
- **GameUp What Plants Need**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Life Science

1 All living things are made of cells that perform functions necessary for life.

How are plant and animals cells organized to carry on the processes of life?

SPI 0707.1.2 *Interpret a chart to explain the integrated relationships that exist among cells, tissues, organs, and organ systems.*

- **BrainPOP Urinary System**
- **BrainPOP Circulatory System**
- **BrainPOP Respiratory System**
- **BrainPOP Cells**

4 more resources

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

Life Science

1 All living things are made of cells that perform functions necessary for life.

How are plant and animals cells organized to carry on the processes of life?

GLE 0707.1.2 *Summarize how the different levels of organization are integrated within living systems.*

- **BrainPOP Cells**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7
Life Science
1 All living things are made of cells that perform functions necessary for life.
How are plant and animals cells organized to carry on the processes of life?
SPI 0707.1.3 *Explain the basic functions of a major organ system.*
- **BrainPOP Circulatory System**
- **BrainPOP Human Body**

12 more resources

- **GameUp Guts and Bolts**

Tennessee **Curriculum Standards > Science (2008)**
Grade 7
Life Science
1 All living things are made of cells that perform functions necessary for life.
How are plant and animals cells organized to carry on the processes of life?
GLE 0707.1.3 *Describe the function of different organ systems and how collectively they enable complex multicellular organisms to survive.*
- **BrainPOP Nervous System**
- **BrainPOP Human Body**

13 more resources

- **GameUp Guts and Bolts**

Tennessee **Performance Indicators State > Science (2008)**
Grade 7
Life Science
1 All living things are made of cells that perform functions necessary for life.
How are plant and animals cells organized to carry on the processes of life?
SPI 0707.1.4 *Sequence a series of diagrams that depict chromosome movement during plant cell division.*
- **BrainPOP Cell Specialization**
- **BrainPOP Gender Determination**
- **BrainPOP Mitosis**

Tennessee **Curriculum Standards > Science (2008)**
Grade 7
Life Science
1 All living things are made of cells that perform functions necessary for life.
How are plant and animals cells organized to carry on the processes of life?
GLE 0707.1.4 *Illustrate how cell division occurs in sequential stages to maintain the chromosome number of a species.*
- **BrainPOP Mitosis**
- **BrainPOP Gender Determination**

Tennessee **Performance Indicators State > Science (2008)**
Grade 7
Life Science
1 All living things are made of cells that perform functions necessary for life.
How are plant and animals cells organized to carry on the processes of life?
SPI 0707.1.5 *Explain how materials move through simple diffusion.*
- **BrainPOP Diffusion**

- **BrainPOP Gills**
- **BrainPOP Active Transport**
- **BrainPOP Passive Transport**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Life Science
  - **1** All living things are made of cells that perform functions necessary for life.
    - How are plant and animals cells organized to carry on the processes of life?
      - **GLE 0707.1.5** *Observe and explain how materials move through simple diffusion.*
    - **BrainPOP Active Transport**
    - **BrainPOP Passive Transport**
    - **BrainPOP Diffusion**
    - **BrainPOP Gills**
  - 3 more resources

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Life Science
  - **3** Matter and energy flow through the biosphere.
    - What scientific information explains how matter and energy flow through the biosphere?
      - **SPI 0707.3.1** *Compare the chemical compounds that make up the reactants and products of photosynthesis and respiration.*
    - **BrainPOP Photosynthesis**
    - **BrainPOP Algae**
    - **BrainPOP Metabolism**
    - **GameUp Reach for the Sun**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Life Science
  - **3** Matter and energy flow through the biosphere.
    - What scientific information explains how matter and energy flow through the biosphere?
      - **GLE 0707.3.1** *Distinguish between the basic features of photosynthesis and respiration.*
    - **BrainPOP Metabolism**
    - **BrainPOP Photosynthesis**
  - 2 more resources
    - **GameUp What Plants Need**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Life Science
  - **3** Matter and energy flow through the biosphere.
    - What scientific information explains how matter and energy flow through the biosphere?
      - **SPI 0707.3.2** *Interpret a diagram to explain how oxygen and carbon dioxide are exchanged between living things and the environment.*
    - **BrainPOP Gills**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Life Science
  - **3** Matter and energy flow through the biosphere.
    - What scientific information explains how matter and energy flow through the biosphere?

GLE 0707.3.2 *Investigate the exchange of oxygen and carbon dioxide between living things and the environment.*

- **BrainPOP Blood**
- **BrainPOP Cellular Respiration**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Life Science

4 Plants and animals reproduce and transmit hereditary information between generations.

What are the principal mechanisms by which living things reproduce and transmit information between parents and offspring?

SPI 0707.4.1 *Classify methods of reproduction as sexual or asexual.*

- **BrainPOP Asexual Reproduction**
- **BrainPOP Bacteria**
- **BrainPOP Cnidarians**
- **BrainPOP Reproductive System**

6 more resources

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

Life Science

4 Plants and animals reproduce and transmit hereditary information between generations.

What are the principal mechanisms by which living things reproduce and transmit information between parents and offspring?

GLE 0707.4.1 *Compare and contrast the fundamental features of sexual and asexual reproduction.*

- **BrainPOP Asexual Reproduction**
- **BrainPOP Cnidarians**
- **BrainPOP Bacteria**
- **BrainPOP Reproductive System**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Life Science

4 Plants and animals reproduce and transmit hereditary information between generations.

What are the principal mechanisms by which living things reproduce and transmit information between parents and offspring?

SPI 0707.4.2 *Match flower parts with their reproductive functions.*

- **BrainPOP Pollination**
- **BrainPOP Asexual Reproduction**

4 more resources

- **GameUp Reach for the Sun**
- **GameUp Build-A-Tree**
- **GameUp What Plants Need**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

Life Science

4 Plants and animals reproduce and transmit hereditary information between generations.

What are the principal mechanisms by which living things reproduce and transmit information between parents and offspring?

▶ **GLE 0707.4.2** *Demonstrate an understanding of sexual reproduction in flowering plants.*

- **BrainPOP Pollination**
- **BrainPOP Reproductive System**

2 more resources

- **GameUp Reach for the Sun**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Life Science

▶ **4** Plants and animals reproduce and transmit hereditary information between generations.

▶ What are the principal mechanisms by which living things reproduce and transmit information between parents and offspring?

▶ **SPI 0707.4.3** *Describe the relationship among genes, chromosomes, and inherited traits.*

- **BrainPOP Gender Determination**
- **BrainPOP Genetics**

2 more resources

- **GameUp Crazy Plant Shop**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

Life Science

▶ **4** Plants and animals reproduce and transmit hereditary information between generations.

▶ What are the principal mechanisms by which living things reproduce and transmit information between parents and offspring?

▶ **GLE 0707.4.3** *Explain the relationship among genes, chromosomes, and inherited traits.*

- **BrainPOP Gender Determination**
- **BrainPOP Genetics**

2 more resources

- **GameUp Crazy Plant Shop**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Life Science

▶ **4** Plants and animals reproduce and transmit hereditary information between generations.

▶ What are the principal mechanisms by which living things reproduce and transmit information between parents and offspring?

▶ **SPI 0707.4.4** *Interpret a Punnett square to predict possible genetic combinations passed from parents to offspring during sexual reproduction.*

- **BrainPOP Blood Types**
- **BrainPOP Reproductive System**

- **GameUp Crazy Plant Shop**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

Life Science

▶ **4** Plants and animals reproduce and transmit hereditary information between generations.

▶

What are the principal mechanisms by which living things reproduce and transmit information between parents and offspring?

▶ **GLE 0707.4.4** *Predict the probable appearance of offspring based on the genetic characteristics of the parents.*

- **BrainPOP Heredity**

- **BrainPOP Genetics**

6 more resources

- **GameUp Crazy Plant Shop**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Earth and Space Science

7 Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

How is the earth affected by long-term and short term geological cycles and the influence of man?

SPI 0707.7.1 *Use a table of physical properties to classify minerals.*

- **BrainPOP Mineral Identification**
- **BrainPOP Crystals**
- **BrainPOP Problem Solving Using Tables**

- **GameUp Master Mines**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

Earth and Space Science

7 Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

How is the earth affected by long-term and short term geological cycles and the influence of man?

GLE 0707.7.1 *Describe the physical properties of minerals.*

- **BrainPOP Mineral Identification**
- **BrainPOP Crystals**

- **GameUp Master Mines**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Earth and Space Science

7 Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

How is the earth affected by long-term and short term geological cycles and the influence of man?

SPI 0707.7.2 *Label a diagram that depicts the three different rock types.*

- **BrainPOP Types of Rocks**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

Earth and Space Science

7 Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

How is the earth affected by long-term and short term geological cycles and the influence of man?

GLE 0707.7.2 *Summarize the basic events that occur during the rock cycle.*

- **BrainPOP Rock Cycle**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Earth and Space Science

7 Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

How is the earth affected by long-term and short term geological cycles and the influence of man?

SPI 0707.7.3 *Identify the major processes that drive the rock cycle.*

- **BrainPOP Rock Cycle**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7 — Earth and Space Science

7 Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

How is the earth affected by long-term and short term geological cycles and the influence of man?

GLE 0707.7.3 *Analyze the characteristics of the earth's layers and the location of the major plates.*

- **BrainPOP Earthquakes**
- **BrainPOP Mountains**
- **BrainPOP Plate Tectonics**
- **BrainPOP Measuring Matter**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7 — Earth and Space Science

7 Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

How is the earth affected by long-term and short term geological cycles and the influence of man?

SPI 0707.7.4 *Differentiate among the characteristics of the earth's three layers.*

- **BrainPOP Earth's Structure**
- **BrainPOP Soil**
- **BrainPOP Volcanoes**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7 — Earth and Space Science

7 Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

How is the earth affected by long-term and short term geological cycles and the influence of man?

GLE 0707.7.4 *Explain how earthquakes, mountain building, volcanoes, and sea floor spreading are associated with movements of the earth's major plates.*

- **BrainPOP Volcanoes**
- **BrainPOP Mountains**

3 more resources

- **GameUp Landform Detectives**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7 — Earth and Space Science

7 Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

How is the earth affected by long-term and short term geological cycles and the influence of man?

SPI 0707.7.5 *Recognize that lithospheric plates on the scale of continents and oceans continually move at rates of centimeters per year.*

- **BrainPOP Plate Tectonics**
- **BrainPOP Mountains**
- **BrainPOP Ocean Currents**
- **BrainPOP Oceans**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7 — Earth and Space Science

7 Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

How is the earth affected by long-term and short term geological cycles and the influence of man?

▶ **GLE 0707.7.5** *Differentiate between renewable and nonrenewable resources in terms of their use by man.*

- **BrainPOP Gas and Oil**
- **BrainPOP Plastic**
- **BrainPOP Conserving Energy**
- **BrainPOP Humans and the Environment**

⊕ 6 more resources

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

⊖ Earth and Space Science

▶ **7** Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

▶ How is the earth affected by long-term and short term geological cycles and the influence of man?

▶ **SPI 0707.7.6** *Describe the relationship between plate movements and earthquakes, mountain building, volcanoes, and sea floor spreading.*

- **BrainPOP Volcanoes**
- **BrainPOP Mountains**

⊕ 3 more resources

- **GameUp Landform Detectives**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

⊖ Earth and Space Science

▶ **7** Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

▶ How is the earth affected by long-term and short term geological cycles and the influence of man?

▶ **GLE 0707.7.6** *Evaluate how human activities affect the earth's land, oceans, and atmosphere.*

- **BrainPOP Ozone Layer**
- **BrainPOP Greenhouse Effect**

⊕ 9 more resources

- **GameUp EXTREME DEPTHS**
- **GameUp Landform Detectives**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

⊖ Earth and Space Science

▶ **7** Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.

▶ How is the earth affected by long-term and short term geological cycles and the influence of man?

▶ **SPI 0707.7.7** *Analyze and evaluate the impact of man's use of earth's land, water, and atmospheric resources.*

- **BrainPOP Humans and the Environment**
- **BrainPOP Global Warming**
- **BrainPOP Water Pollution**
- **BrainPOP Plastic**

⊕ 9 more resources

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

⊖ Physical Science

▶ **11** Objects move in ways that can be observed, described, predicted, and measured.

▶ What causes objects to move differently under different circumstances?

▶

GLE 0707.11.1 *Identify six types of simple machines.*

- **BrainPOP Pulley**
- **BrainPOP Wheel and Axle**

4 more resources

- **GameUp Simple Machines**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Physical Science

11 Objects move in ways that can be observed, described, predicted, and measured.

What causes objects to move differently under different circumstances?

SPI 0707.11.1 *Differentiate between the six simple machines.*

- **BrainPOP Inclined Plane**
- **BrainPOP Levers**

4 more resources

- **GameUp Simple Machines**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

Physical Science

11 Objects move in ways that can be observed, described, predicted, and measured.

What causes objects to move differently under different circumstances?

GLE 0707.11.2 *Apply the equation for work in experiments with simple machines to determine the amount of force needed to do work.*

- **BrainPOP Work**
- **BrainPOP Gears**
- **BrainPOP Pulley**
- **BrainPOP Wheel and Axle**
- **BrainPOP Newton's Laws of Motion**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

Physical Science

11 Objects move in ways that can be observed, described, predicted, and measured.

What causes objects to move differently under different circumstances?

SPI 0707.11.2 *Determine the amount of force needed to do work using different simple machines.*

- **BrainPOP Gears**
- **BrainPOP Pulley**

6 more resources

- **GameUp Simple Machines**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

Physical Science

11 Objects move in ways that can be observed, described, predicted, and measured.

What causes objects to move differently under different circumstances?

GLE 0707.11.3 *Distinguish between speed and velocity.*

- **BrainPOP Distance, Rate, and Time**

- **GameUp Project T.R.I.G.**
- **GameUp Build a Solar System**

- **GameUp Coaster Creator**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Physical Science
  - **11** Objects move in ways that can be observed, described, predicted, and measured.
    - What causes objects to move differently under different circumstances?
      - **SPI 0707.11.3** *Apply proper equations to solve basic problems pertaining to distance, time, speed, and velocity.*
    - **BrainPOP Distance, Rate, and Time**
    - **BrainPOP Work**
    - **GameUp Coaster Creator**
    - **GameUp Project T.R.I.G.**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Physical Science
  - **11** Objects move in ways that can be observed, described, predicted, and measured.
    - What causes objects to move differently under different circumstances?
      - **GLE 0707.11.4** *Investigate how Newton's laws of motion explain an object's movement.*
    - **BrainPOP Newton's Laws of Motion**
    - **BrainPOP Acceleration**
  - 3 more resources
    - **GameUp Build a Solar System**
    - **GameUp Fly to Mars**
    - **GameUp Impulse**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

- Physical Science
  - **11** Objects move in ways that can be observed, described, predicted, and measured.
    - What causes objects to move differently under different circumstances?
      - **GLE 0707.11.5** *Compare and contrast the basic parts of a wave.*
    - **BrainPOP Waves**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Physical Science
  - **11** Objects move in ways that can be observed, described, predicted, and measured.
    - What causes objects to move differently under different circumstances?
      - **SPI 0707.11.4** *Identify and explain how Newton's laws of motion relate to the movement of objects.*
    - **BrainPOP Newton's Laws of Motion**
    - **BrainPOP Work**
  - 2 more resources
    - **GameUp Build a Solar System**
    - **GameUp Fly to Mars**
  - 2 more resources

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

- Physical Science
  - **11** Objects move in ways that can be observed, described, predicted, and measured.
    - What causes objects to move differently under different circumstances?

▶ **SPI 0707.11.5** *Compare and contrast the different parts of a wave.*

- **BrainPOP Waves**

Tennessee **Curriculum Standards > Science (2008)**

Grade 7

⛔ Physical Science

▶ **11** Objects move in ways that can be observed, described, predicted, and measured.

▶ What causes objects to move differently under different circumstances?

▶ **GLE 0707.11.6** *Investigate the types and fundamental properties of waves.*

- **BrainPOP Refraction and Diffraction**

Tennessee **Performance Indicators State > Science (2008)**

Grade 7

⛔ Physical Science

▶ **11** Objects move in ways that can be observed, described, predicted, and measured.

▶ What causes objects to move differently under different circumstances?

▶ **SPI 0707.11.6** *Differentiate between transverse and longitudinal waves in terms of how they are produced and transmitted.*

- **BrainPOP Sound**