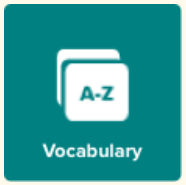
Pacing Guide: **Mountain Formation**

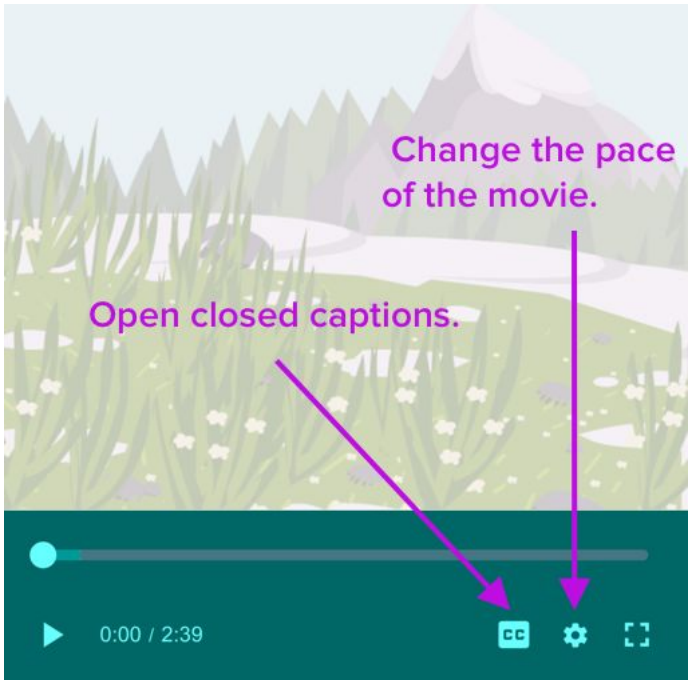
Grade Level: **Sixth Grade** | Duration: **1 week**

BrainPOP Topics: (1) **Plate Tectonics** (2) **Mountains**

	DAY 1 - 30 Min	**DAY 2** - 30 min	**DAY 3** - 30 min	**DAY 4** - 40 min	**Day 5** - 40 min
Build Background Watch the movie, pausing to reflect on content.	 Watch Movie: Plate Tectonics	 Re-watch Movie: Plate Tectonics	 Watch Movie: Mountains	 Re-watch Movie: Mountains	Re-watch Movies (optional): Plate Tectonics Mountains
Think & Do Engage with a grade-level appropriate feature or tool.	 Vocabulary Development: What is the difference between convergent, divergent, and transform plate boundaries? View rubric.	 Apply Knowledge: Plate Tectonics	 Vocabulary Development: Mountains	 Apply Knowledge: Mountains	 Apply Knowledge: How do plate boundaries create mountains? View rubric.

Assess Take a topic quiz and review your score.		Quiz Test Yourself: Plate Tectonics		Quiz Test Yourself: Mountains	

Movie Viewing Tips



CCSS

Standard	Activity
CCSS.ELA-LITERACY.RI.6.1 Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.	**Build Background** Watch and discuss movies: Plate Tectonics Mountains
CCSS.ELA-LITERACY.L.6.4 Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 6 reading and content, choosing flexibly from a range of strategies. CCSS.ELA-LITERACY.RST.6-8.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to *grades 6-8 texts and topics*.	**Think & Do** Make-A-Map: Plate Tectonics Vocabulary: Mountains
CCSS.ELA-LITERACY.RI.6.7 Integrate information presented in different media or formats (e.g., visually, quantitatively) as well as in words to develop a coherent understanding of a topic or issue.	**Think & Do** Graphic Organizer: Plate Tectonics Primary Source: Mountains
CCSS.ELA-LITERACY.SL.6.2 Interpret information presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how it contributes to a topic, text, or issue under study. CCSS.ELA-LITERACY.SL.6.5 Include multimedia components (e.g., graphics, images, music, sound) and visual displays in presentations to clarify information. CCSS.ELA-LITERACY.W.6.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	**Think & Do** Make-a-Movie: Plate Tectonics

CCSS.ELA-LITERACY.RI.6.2 Determine a central idea of a text and how it is conveyed through particular details; provide a summary of the text distinct from personal opinions or judgments.	**Assess** Quiz: Plate Tectonics Quiz: Mountains

NGSS

Science and Engineering Practices: 6-8

- ***Constructing Explanations***
  - Construct a scientific explanation based on valid and reliable evidence obtained from sources (including the students' own experiments) and the assumption that theories and laws that describe the natural world operate today as they did in the past and will continue to do so in the future.
  - Apply scientific ideas, principles, and/or evidence to construct, revise and/or use an explanation for real-world phenomena, examples, or events.
- ***Obtaining, Evaluating, and Communicating Information***
  - Communicate scientific and/or technical information (e.g. about a proposed object, tool, process, system) in writing and/or through oral presentations.

Disciplinary Core Ideas

ESS2.A: Earth Materials and Systems	The planet's systems interact over scales that range from microscopic to global in size, and they operate over fractions of a second to billions of years. These interactions have shaped Earth's history and will determine its future.
ESS2.B: Plate Tectonics and Large-Scale System Interactions	Maps of ancient land and water patterns, based on investigations of rocks and fossils, make clear how Earth's plates have moved great distances, collided, and spread apart.

Crosscutting Concepts: 6-8

- ***Patterns***
  - Patterns in rates of change and other numerical relationships can provide information about natural systems.
- ***Cause and Effect***
  - Cause and effect relationships may be used to predict phenomena in natural or designed systems.