

Plate Tectonics Scavenger Hunt

Grades

9-12



Overview:

Students identify key information about plate tectonics by navigating through multimedia.

Targeted Alaska Grade Level Expectations:

Science

- [9] SA1.1 The student demonstrates an understanding of the processes of science by asking questions, predicting, observing, describing, measuring, classifying, making generalizations, inferring, and communicating.
- [10-11] SA1.1 The student demonstrates an understanding of the processes of science by asking questions, predicting, observing, describing, measuring, classifying, making generalizations, analyzing data, developing models, inferring, and communicating.
- [9-11] SD2.2 The student demonstrates an understanding of the forces that shape Earth by describing how the theory of plate tectonics explains the dynamic nature of its surface.

Objective:

The student will research information on plate tectonics by interacting with multimedia files.

Materials:

- MULTIMEDIA FILES: "Earth's Layers"; "Convection Current"; "Wegener's Theory"; "Pangaea Puzzle"; "Moving Crust"; "Sliding Plates"; "Plate Tectonics"; "Divergent"; "Convergent"; "Transform"; "Plate Boundaries"; "Magma"; "Spreading Centers"; "Trenches"; and "Where Volcanoes Form" under Unit 4 on the ATEP website (<http://www.aktsunami.org/multimedia>).
- STUDENT WORKSHEET: "Plate Tectonics Scavenger Hunt"

Science Basics:

View the Unit 4 multimedia files for this lesson on the ATEP website (<http://www.aktsunami.org/multimedia>) to gain a basic understanding of plate tectonics.

Activity Procedure:

Distribute STUDENT WORKSHEET: "Plate Tectonics Scavenger Hunt." Ask students to complete the worksheet by navigating through the multimedia files as directed.

Answers:

- | | | | | | | | | | | | | |
|-----------------|--|--------|---|------------|------------|------------|-----------------|-------|-------|--------|-------|--|
| 1. | <table border="1"><tr><td>Layer</td><td>crust</td><td>mantle</td><td>outer core</td><td>inner core</td></tr><tr><td>Solid or Liquid</td><td>solid</td><td>solid</td><td>liquid</td><td>solid</td></tr></table> | Layer | crust | mantle | outer core | inner core | Solid or Liquid | solid | solid | liquid | solid | |
| Layer | crust | mantle | outer core | inner core | | | | | | | | |
| Solid or Liquid | solid | solid | liquid | solid | | | | | | | | |
| 2. | cool; hot | 9. | mountain ranges and trenches | | | | | | | | | |
| 3. | Pangaea | 10. | Pacific Plate and North American Plate | | | | | | | | | |
| 5. | a. lithosphere. b. asthenosphere. | 12. | lava | | | | | | | | | |
| 6. | plates | 13. | divergent | | | | | | | | | |
| 7. | a. away b. toward c. slide past | 14. | subducted | | | | | | | | | |
| 8. | ridges | 15. | a. subduction zones b. spreading centers c. hot spots | | | | | | | | | |

NOTE: Numbers 4 and 11 do not require answers.

Plate Tectonics Scavenger Hunt Answer Key

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