

# 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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### **Plate Tectonics Scavenger Hunt Answer Key Introduction**

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