

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

RD Boyd



Plate Tectonics Scavenger Hunt Answer Key:

Science Foundation Course Open University, Open University. S102 Science Foundation Course Team, 1987

Reviewing **Plate Tectonics Scavenger Hunt Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Plate Tectonics Scavenger Hunt Answer Key**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<https://crm.avenza.com/results/browse/Documents/Sex%20Lies%20And%20General%20Competence%20English%20Edition.pdf>

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web mathematically it is computed using the following equation power work time or $p = \frac{w}{t}$ the standard metric unit of power is the watt as is implied by the equation for power a unit of power is equivalent to a unit of work divided by a unit of time

thus a watt is equivalent to a joule second

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web power an object can store energy as the result of its position for example the heavy ball of a demolition machine is storing energy when it is held at an elevated position this stored energy of position is referred to as potential energy similarly a drawn bow is able to store energy as the result of its position

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web answer a for any given situation the work done by a force can be calculated using the equation $w = f d \cos \theta$ where f is the force doing the work d is the displacement of the object and θ is the angle between the force and the displacement

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web energy bar charts or even work energy bar charts are conceptual tools that help to illustrate how the energy changes both the form and the amount as the object moves from the initial state to the final state

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web check your understanding use your understanding of the work energy theorem to answer the following questions then click the button to view the answers 1 consider the falling and rolling motion of the ball in the following two resistance free situations