



Earth's Formation

18 Questions

NAME : _____

CLASS : _____

DATE : _____

1. Which of the following is the correct order of Earth's layers from outermost to innermost?

- a) crust, outer core, inner core, mantle
- b) crust, mantle, outer core, inner core
- c) mantle, inner core, outer core, crust
- d) inner core, outer core, mantle, crust

2. Which layer of the Earth's chemical layers is responsible for causing the magnetic field of the Earth?

- a) crust
- b) inner core
- c) outer core
- d) mantle

3. Scientists classify Earth's chemical layers by which of the following?

- a) composition or chemical make-up
- b) heat transfer
- c) state of matter
- d) temperature

4. According to Nebular Theory, materials that accumulate to make a planet come from what source?

- a) asteroid impacts
- b) dust and gas from newly created stars
- c) ice from comets
- d) all of these

5. Which of the Earth's chemical layers makes up the least amount of Earth's mass?

- a) crust
- b) inner core
- c) outer core
- d) mantle



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6. Planetary differentiation occurs because of what property of matter?

a) convection

b) density

c) mass

d) volume

7. A material with a _____ density will be located _____ of a planet.

a) high; on the surface

b) low; in the middle

c) low; on the surface

d) low; in the center

8. The mantle is made of _____, which allows it to have active convection currents.

a) gases

b) liquid rock

c) solid, yet flowing rock (plastic-like rock)

d) solid rock

9. Where do convection currents in the mantle get their heat from?

a) the core

b) the Sun

c) friction from tectonic plates

d) all of these

10. In terms of thickness, which of the Earth's layers is largest?

a) crust

b) inner core

c) outer core

d) mantle

11. Scientists use which kind of waves to determine the properties of Earth's internal layers?

a) light waves

b) sound waves

c) seismic waves

d) ocean waves

12. Heat transfer from a hot liquid/gas to a cold liquid/gas occurs by which of the following?

- a) convection currents
- b) conduction
- c) radiation
- d) all of these

13. Primary "P" waves travel through which layers of the Earth?

- a) all layers
- b) crust, mantle, and inner core
- c) outer core only
- d) inner core and outer core

14. S waves are known secondary waves because

- a) They are slower than primary waves.
- b) They travel through solid layers only.
- c) They are faster than primary waves.
- d) They travel through liquid layers only.

15. S waves have what kind of motion?

- a) compressional (back and forth) only
- b) side to side
- c) up and down
- d) Both side to side and up and down.

16. Both P and S waves

- a) carry energy
- b) are generated by earthquakes
- c) can cause destruction to buildings
- d) all of these

17. As a substance is heated, what happens to its density?

- a) decreases
- b) increases
- c) stays the same
- d) none of these

18. Objects with a _____ density tend to _____ because they are _____.

a) low; float; heavier

b) low; float; lighter

c) low; sink; heavier

d) low; sink; lighter

Answer Key

- 1. b
- 2. c
- 3. a
- 4. b
- 5. a

- 6. b
- 7. c
- 8. c
- 9. a
- 10. d

- 11. c
- 12. a
- 13. a
- 14. a
- 15. d

- 16. d
- 17. a
- 18. b