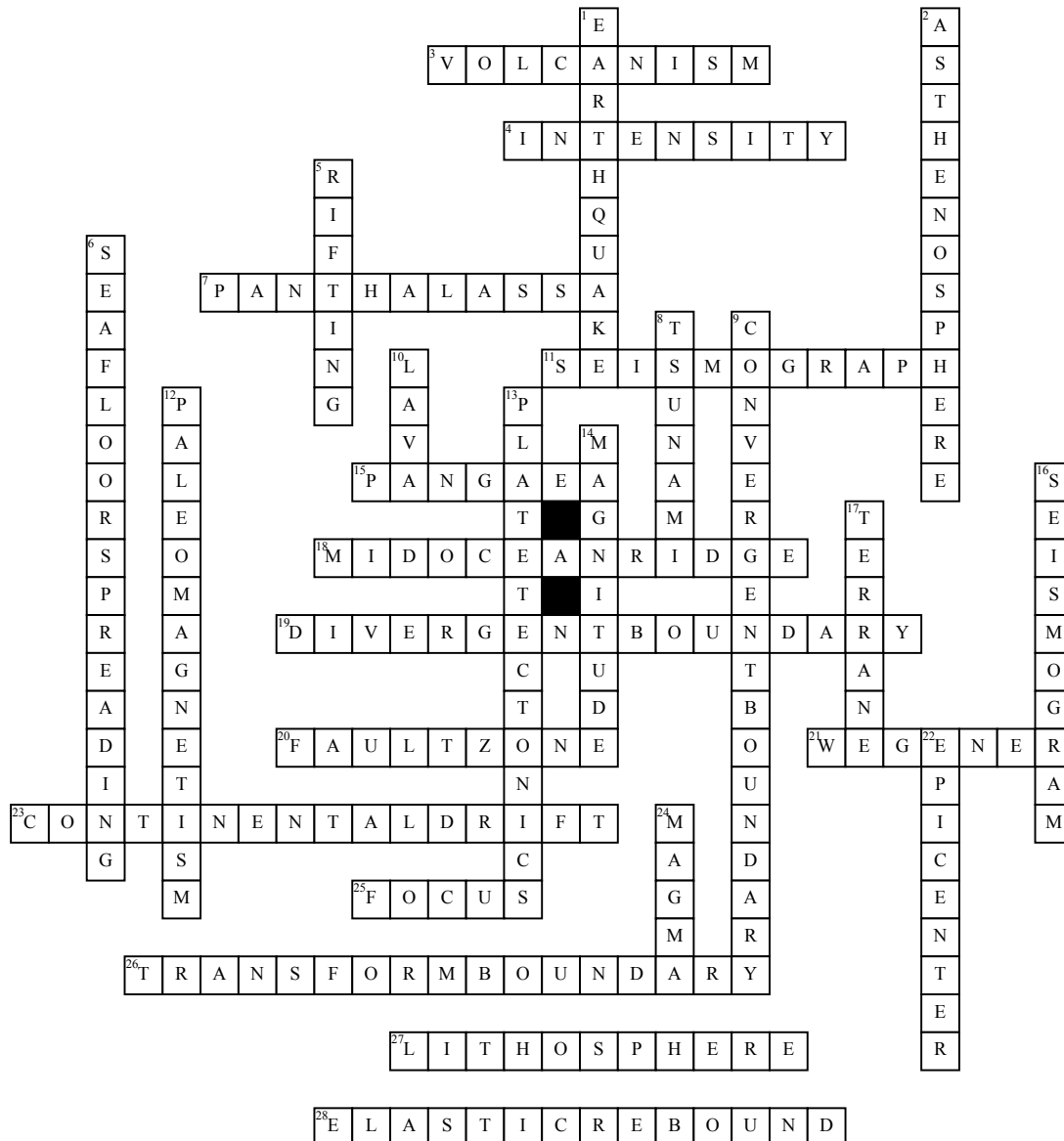


# Plate Tectonics and Volcanoes



## Across

3. any activity that includes the movement of magma toward or onto Earth's surface
4. in Earth science the amount of damage caused by an earthquake
7. single, large ocean that covered Earth's surface during the time of Pangaea
11. an instrument that records vibrations in the ground
15. supercontinent that formed 300 million years ago and that began to break up beginning 250 million years ago
18. long, undersea mountain chain with steep valley at its center
19. the boundary between tectonic plates that are moving away from each other
20. a region of numerous, closely spaced faults
21. scientist that proposed continental drift
23. hypothesis that states the continents once formed a single landmass

25. the location where the first motion of an earthquake occurs
26. the boundary between tectonic plates that are sliding past each other
27. solid, outer layer of Earth that consists of the crust and the rigid upper part of the mantle
28. the sudden return of elastically deformed rock to its undeformed shape

## Down

1. movement or trembling of the ground that is caused by a sudden release of energy when rocks along a fault move
2. solid, plastic layer of the mantle beneath the lithosphere
5. the process by which Earth's crust breaks apart
6. the process which new oceanic lithosphere forms as magma rises to Earth's surface and solidifies

8. a giant ocean wave that forms after a volcanic eruption
9. the boundary between tectonic plates that are colliding
10. magma that flows onto Earth's surface; the rock that forms when lava cools and solidifies
12. study of alignment of magnetic mineral in rock, as it relates to the reversal of Earth's magnetic poles
13. theory that explains how large pieces of the lithosphere move and change shape
14. measure of the strength of an earthquake
16. tracing of earthquake motion that is recorded by a seismograph
17. piece of lithosphere that has a unique geologic history and that may be part of a larger piece of lithosphere
22. point on Earth's surface directly above an Earthquake's starting point or focus
24. liquid rock produced under Earth's surface