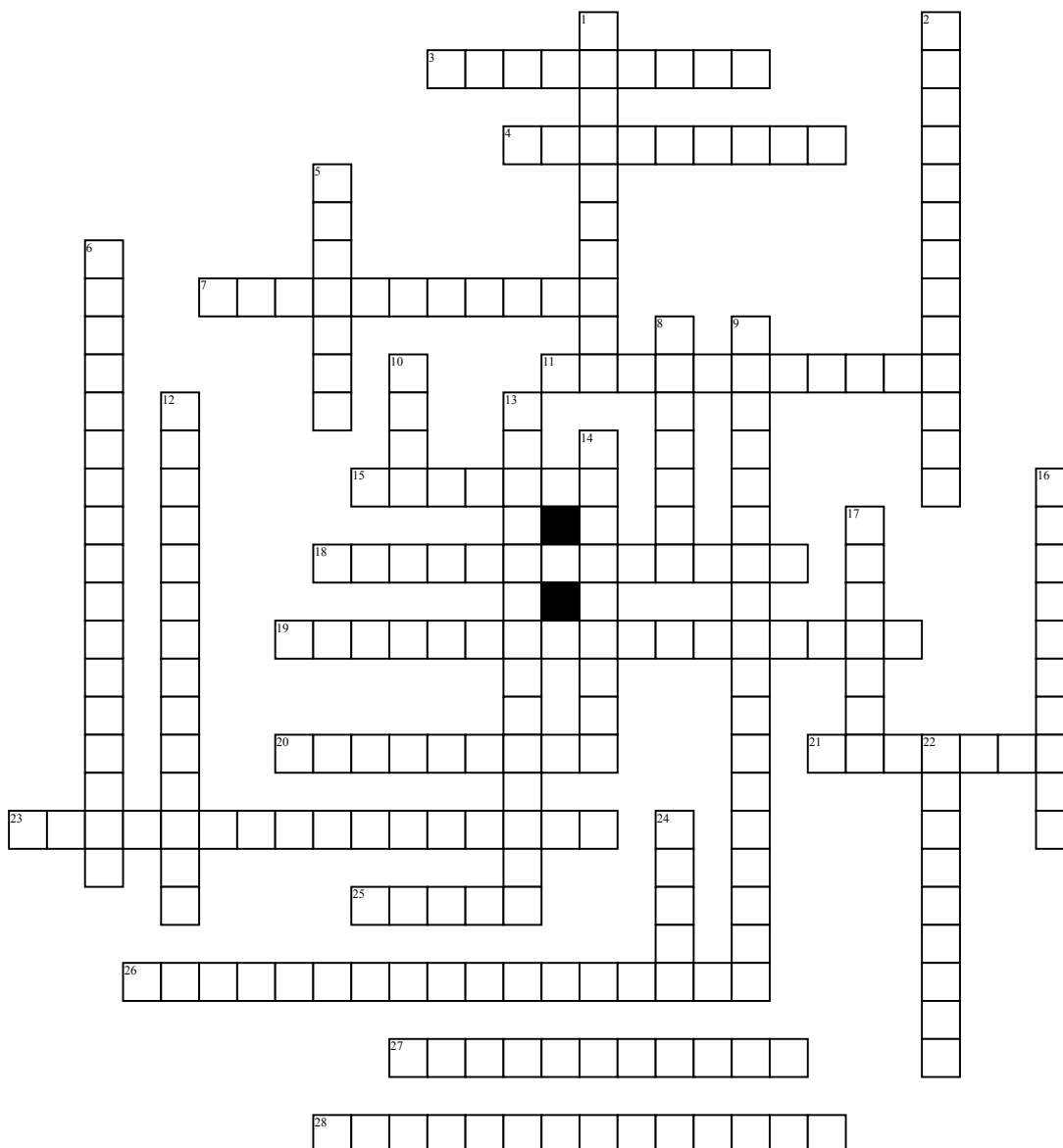


Plate Tectonics and Volcanoes



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 it's 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