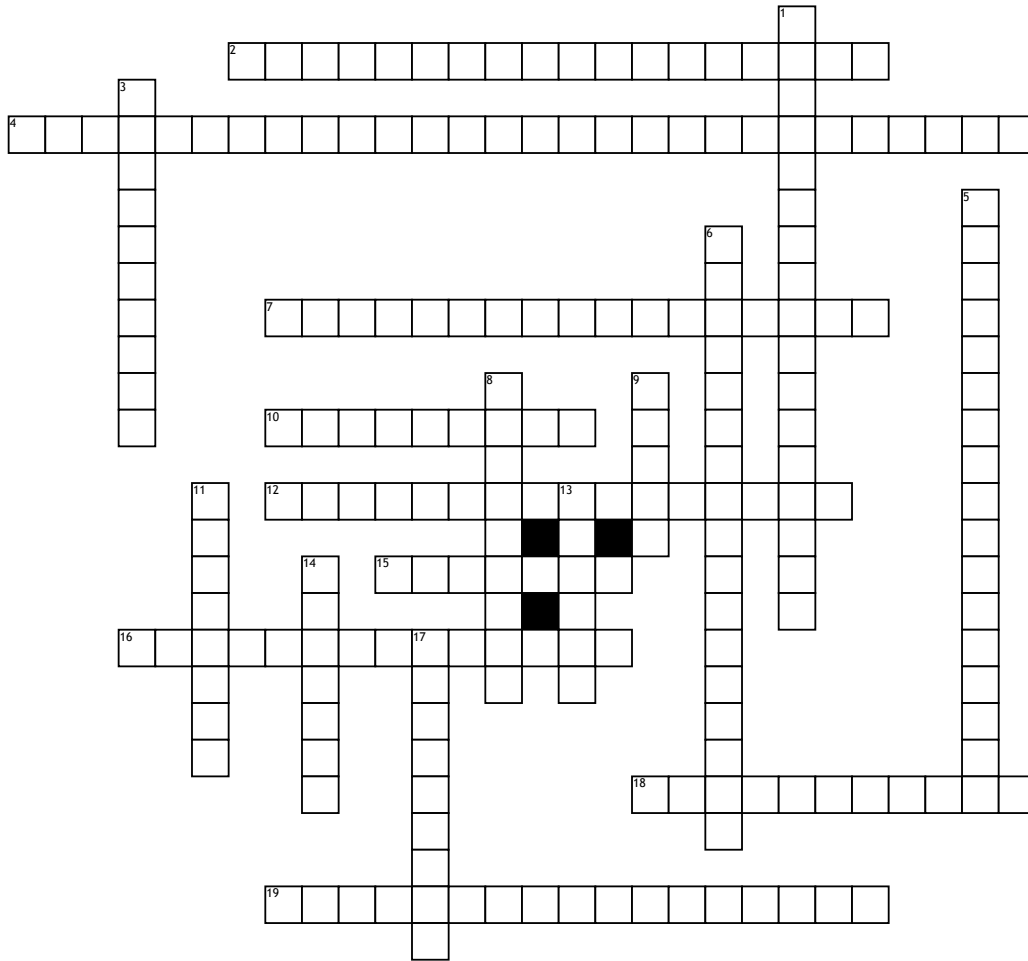


# Plate Tectonics , Earth quakes and Volcanoes



## Across

2. the boundary formed by the collision of two tectonic plates (lithosphere)
4. volcanic islands that form as a result of plate tectonic movement over a hotspot
7. hot less dense material below Earth's crust rises toward the surface at the mid-ocean ridges flow sideways. carrying the sea floor away from the ridge
10. Form at Continental-Continental Convergent Plate Boundaries when rock layers are squeezed together and pushed upward ex. Alps in central Europe, Ural Mountains in Russia, and the Himalayas in Asia
12. wegener's hypothesis that continents have slowly moved to their present day locations
15. supercontinent that means "all land"

16. Theory that Earth's crust and part of the upper mantle are broken into sections called plates that move on a plasticlike layer of the mantle
18. vibrations produce when rocks along a fault are moving away from each other

## Down

1. a region of high volcanic and seismic activity that surrounds the majority of the Pacific Ocean basin - made up of converging plate boundaries
3. boundary that forms when two plates collide cause subduction trenches mountains, volcanoes
5. a region of high volcanic and seismic activity that surrounds the majority of the Pacific Ocean basin - made up of converging plate boundaries

6. the boundary between tectonic plates that are sliding past each other in opposite directions - these plates grind and jerk as they slide which produces earthquakes

8. boundary that forms when two plates move apart cause mid-ocean ridges rift zones earthquakes

9. surface along which rocks move when they pass their elastic limit and break

11. Usually forms at Continental- Oceanic Convergent Plate Boundaries where oceanic crust sinks into the asthenosphere at subduction zones

13. a long narrow steep-sided depression in the earth's crust

14. an area in the mantle from which heat rises in the form of a thermal plume from deep within the Earth

17. boundary that forms when two plates slide past each other causes earthquakes

## Word Bank

divergent  
Transform boundary  
mid-ocean ridge hawaiian islands  
convergent  
seafloor spreading  
transform  
volcanos

Pacific Ring of Fire  
Pangaea  
Plate Tectonics  
fault  
mountains  
continental drift

trench  
hotspot  
Convergent boundary  
Divergent Boundary  
earthquakes  
Pacific Ring of Fire