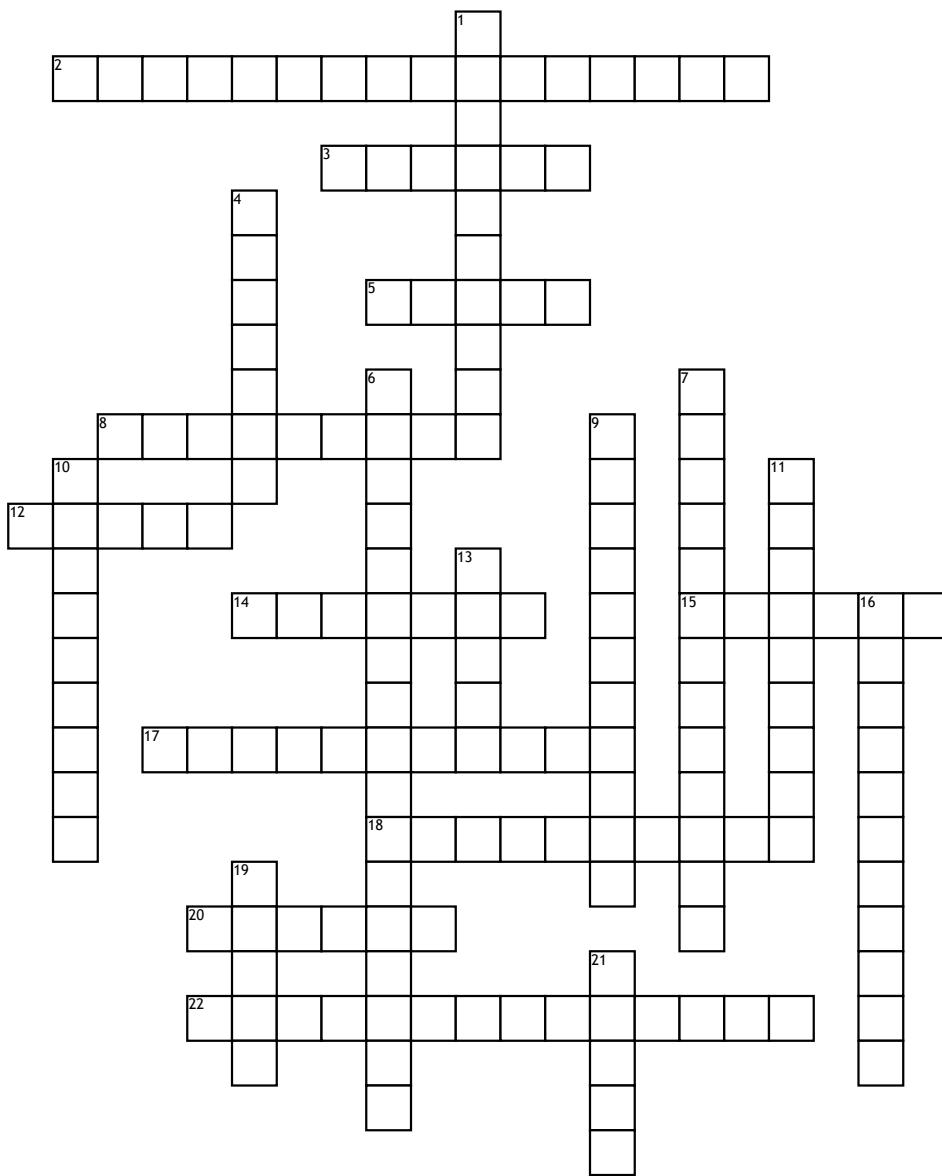


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Plate Tectonics



## Across

2. the theory proposed by the scientist Alfred Wegener that states the continents have gradually moved over time  
3. contains most of the Earth's volume; made of hot, dense rock that "flows"  
5. where the plates touch each other  
8. made of liquid mostly iron and nickel  
12. the thin coat of soil and water that make up the top layer of the Earth  
14. a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are being or have been erupted from the earth's crust.  
15. The Mariana \_\_\_\_\_ is the deepest part of the ocean. It is formed by a convergent boundary between the Pacific Plate and the Mariana Plate.

17. a tool used to record the energy waves of earthquakes  
18. the type of boundary that occurs when plates move into each other  
20. the Earth is made of \_\_\_\_\_  
22. According to the theory of \_\_\_\_\_, Earth's crust is composed of a number of individual plates that change shape and position over time  
Down  
1. When the plates move and the boundaries bump up against each other it can cause an \_\_\_\_\_.  
4. the name given to the large supercontinent that was formed over 200 million years ago  
6. what causes the plates to move

7. caused by the circulation of the liquid metal of the outer core moving around the inner core; makes a compass to work  
9. a combination of the crust and the outer mantle  
10. the type of boundary that occurs when plates are sliding against each other  
11. the type of boundary that occurs when plates move away from each other  
13. Subduction takes place at convergent boundaries when one plate moves \_\_\_\_\_ another.  
16. \_\_\_\_\_ plates are many times thicker than oceanic plates, but the rock is less dense  
19. the lines where the plates meet  
21. The inner core is made of \_\_\_\_\_ metal