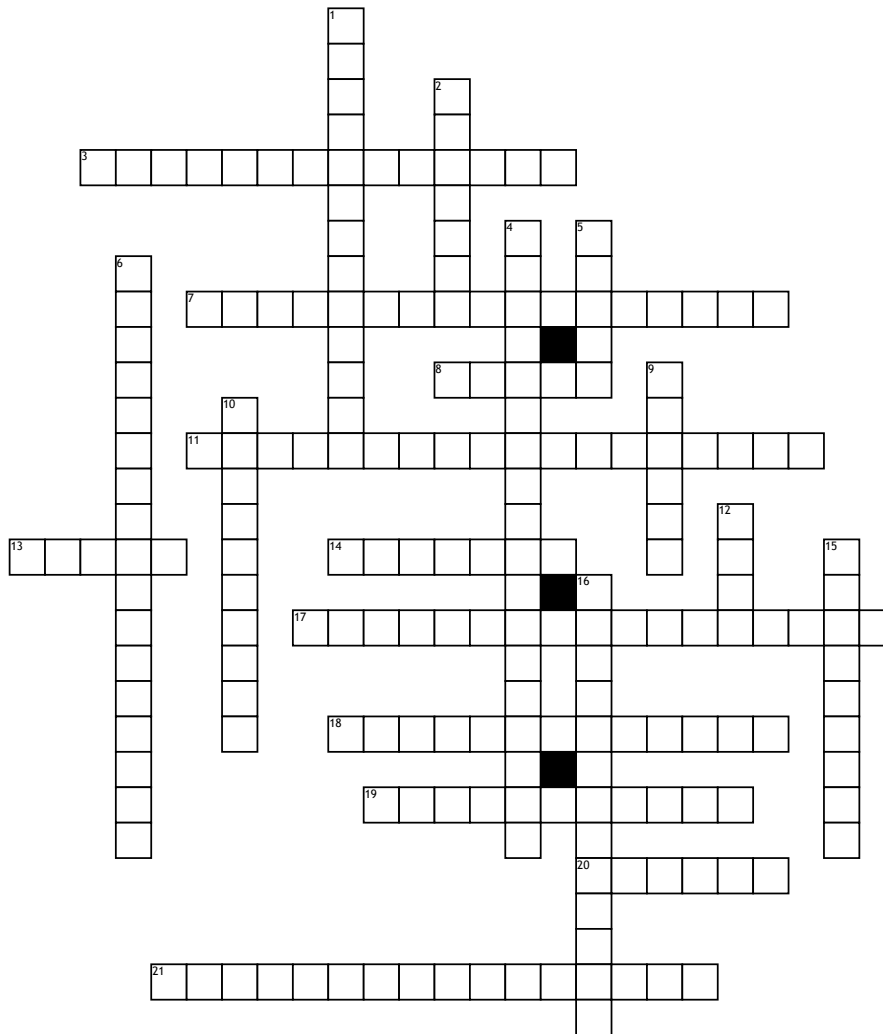


Name: \_\_\_\_\_

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

# Plate Tectonics



## Across

3. a theory explaining the structure of the earth's crust and many associated phenomena as resulting from interaction of rigid lithospheric plates that move under the mantle

7. plates move away from one another

8. a place where sections of the crust of the earth move relative to each other.

11. boundary between two colliding plates

13. hot fluid or semifluid material below or within the earth's crust from which lava and other igneous rocks are formed by cooling.

14. a mountain or hill having a crater or vent through which lava, rock fragments, hot vapor and gas are being erupted from the earth's crust.

17. the formation of new areas of oceanic crust, which occurs through the upwelling of magma at midocean ridges and its subsequent outward movement on either side

18. a German polar researcher, geophysicist and meteorologist

19. a squeezing force

20. the hypothetical landmass that existed when all continents were joined, from 300 to 200 million years ago

21. the gradual movement of the continents across the earth's surface through geological time

## Down

1. an elevated region with a central valley on an ocean floor at the boundary between two diverging tectonic plates where new crust forms from upwelling magma

2. a pulling force

4. a region where an oceanic plate sinks down into the asthenosphere

5. outermost layer of the earth

6. between two plates that are sliding past each other

9. layer between the crust and core

10. any of the world's main continuous expanses of land

12. hot molten material erupted from a volcano or fissure, or solid rock resulting from cooling of this.

15. solid, dense center of the earth

16. soft layer of the mantle

## Word Bank

continents

crust

fault

divergent boundary

Magma

transform boundary

mantle

Lava

Alfred Wegener

inner core

subduction boundary

Mid Ocean Ridge

Volcano

asthenosphere

plate tectonics

Pangea

convergent boundary

Sea - Floor Spreading

compression

continental drift

tension