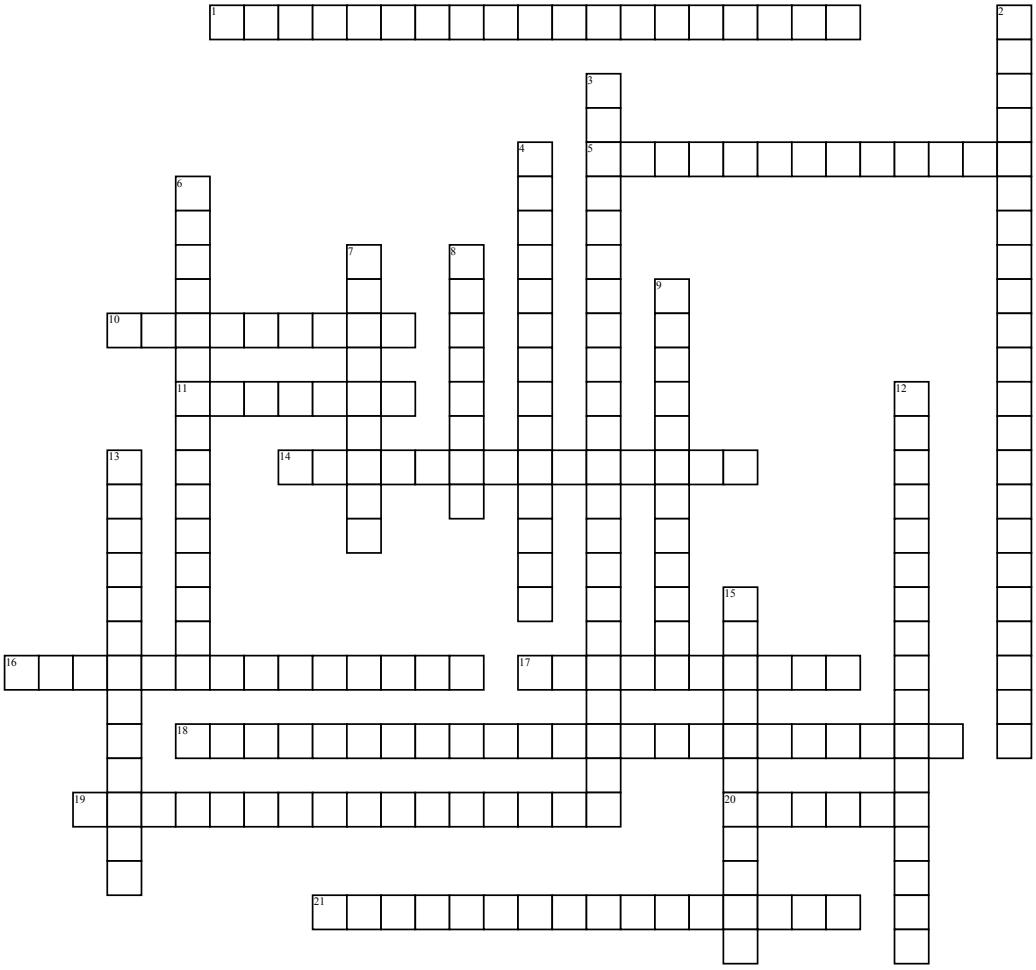
Name: _____ Date: _____ Period: _____

Plate Tectonics



Across

1. what heats Earth's interior
5. the man who came up with the Plate Tectonic Theory
10. rising mantle material at mid-ocean ridges creates the potential for plates to move away from the ridge with a force
11. this helped develop the Plate Tectonic Theory
14. a state in which magnetized objects, such as compass needles, will orient themselves to point north
16. the mountain ranges in the middle of the oceans
17. the circulation of material caused by differences in temperature and density
18. form where two plates collide. The denser plate sinks below the more buoyant plate in a process called subduction
19. a state in which magnetized objects would reverse direction and orient themselves to point south
20. all the continents were once part of a supercontinent
21. occurs and the magnetic field reverses direction

Down

2. forms where two plates separate
3. forms where two plates slide past each other
4. states that Earth's surface is made of rigid slabs of rock, or plates , that move with respect to each other
6. what is one of the smallest plate tectonic
7. convection currents in the mantle produce fa force that causes motion
8. as a slab sinks, it pulls on the rest of the plate with a force
9. what is the largest plate tectonic
12. the process by which new oceanic crust forms along a mid-ocean ridge and older oceanic crust moves away from the ridge
13. layer of Earth below the lithosphere
15. the cold and rigid outermost rock layer

Word Bank

asthenosphere
normal polarity
lithosphere
slab pull
AlfredWegener
mid-oceanridges
convection
platetectonics
seafloorspreading
transformplateboundary
convergentplateboundary
radioactiveelements
Pangea
Fossils
Juan de Fuca Plate
divergentplateboundary
reversed polarity
magnetic reversal
basal drag
ridge push
Pacific Plate