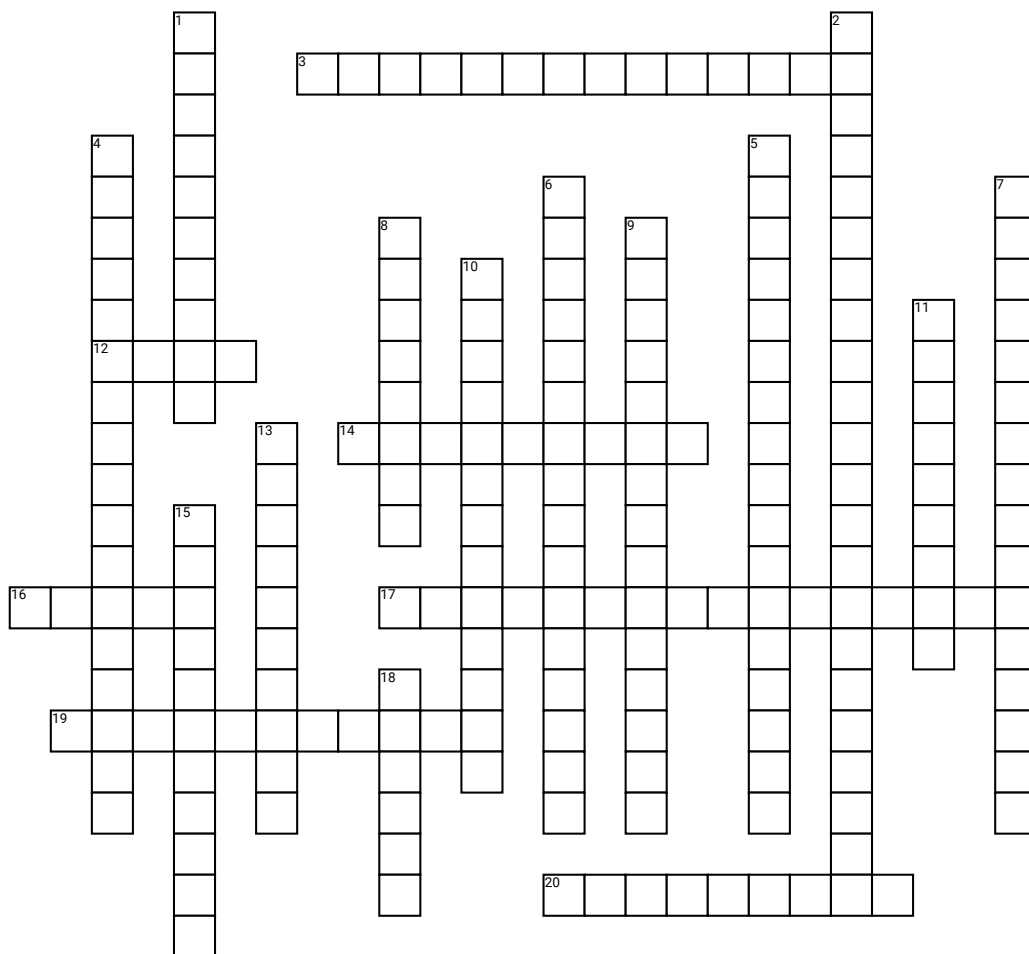


Name: _____ Date: _____ Period: _____

Plate Tectonic Crossword Puzzle



Across

3. Solid chunks of mantle rock that make it to Earth's surface during a volcanic eruption
12. Central part of Earth below the mantle
14. Layer of molten iron and nickel that surrounds the inner core
16. Earth's outermost compositional layer
17. Switch in the direction of Earth's magnetic field
19. Vibrations that travel through earth carrying energy released from an earthquake
20. Gravity moves a plate downward and away from a ridge

Down

1. Lower part of the mantle between the asthenosphere and the outer core
2. States that Earth's lithosphere is broken into huge moving slabs of rock
4. Movement of a fluid caused by differences in density and temperature
5. When new oceanic lithosphere forms as magma, rises towards the surfaces and solidifies
6. Breakdown of unstable materials into stable materials
7. Hypothesis that today's continents were once part of a single landmass
8. Pulling of a tectonic plate as it's edge subducts into the mantle

9. Process where gravity pulls high density materials downward and pushes low density materials up
10. Who created the hypothesis of continental drift?
11. Who discovered sea floor spreading?
13. When the oceanic crust sinks beneath a deep ocean trench and back into the mantle
15. Rigid layer made up of the upper most part of the mantle and the crust
18. Name of supercontinent

Word Bank

differentiation
magnetic reversal
core
theory of plate tectonics
mesosphere

Alfred Wegener
mantle xenolith
lithosphere
seismic wave
ridge push

subduction
crust
sea floor spreading
convection current
continental drift

slab pull
Pangea
outer core
Harry Hess
radioactive decay