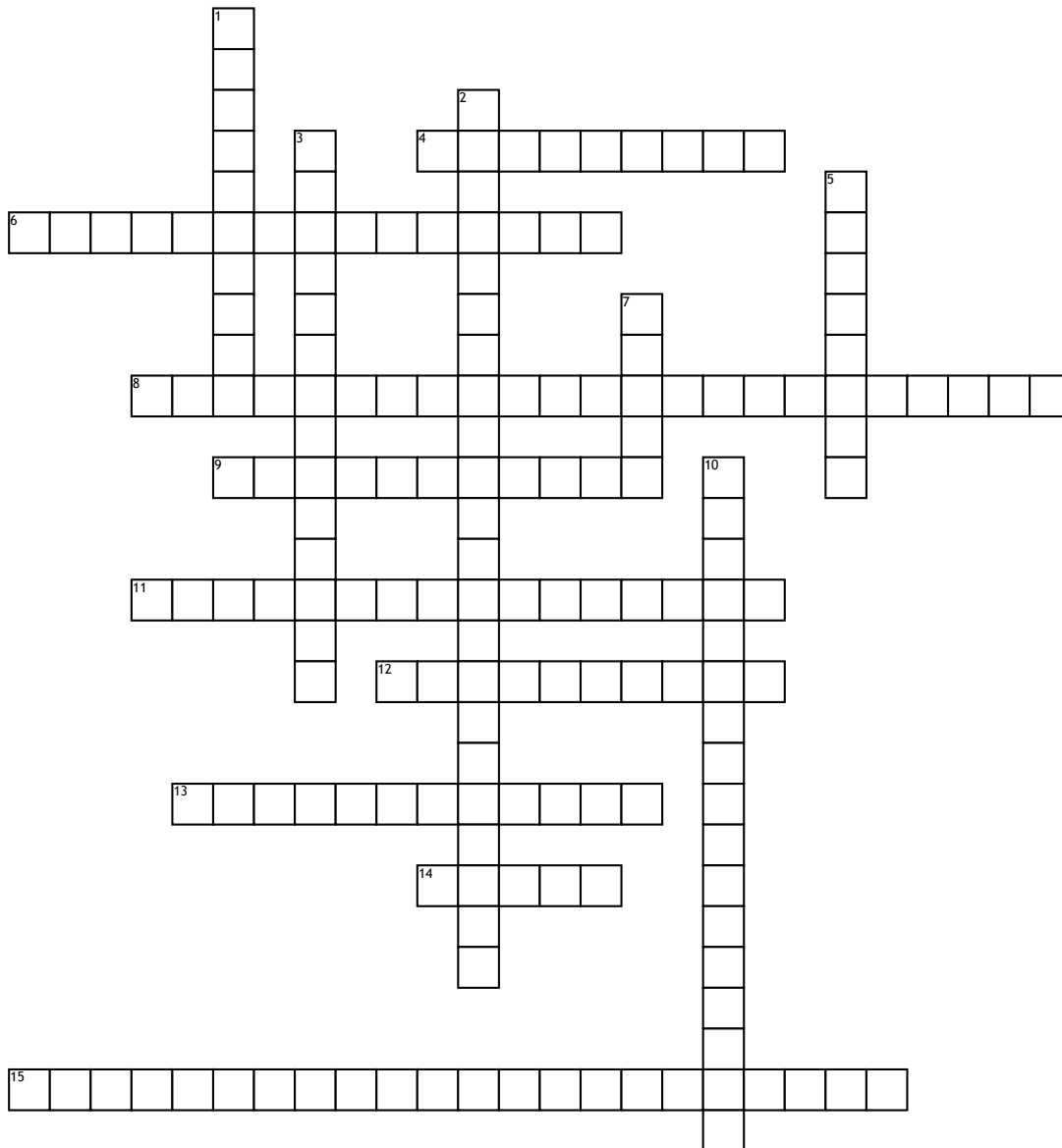


Name: \_\_\_\_\_

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

# Plate Tectonics



## Across

4. Rising mantle material at mid-ocean ridges creates the potential for plates to move away from the ridge with a force  
 6. A deep valley along the ocean floor beneath which oceanic crust slowly sinks toward the mantle  
 8. This forms when two plates collide  
 9. The name of the cold and rigid outermost rock layer  
 11. The hypothesis that the continents slowly move across Earth's surface

12. When the denser plate sinks below the more buoyant plate in a process

13. A valley that forms where plates spread apart at spreading boundaries

14. A break or crack in Earth's lithosphere along which the rocks move

15. This forms when two plates slide past each other

## Down

1. The circulation of material caused by differences in temperature and density

2. This forms when two plates separate

3. What is it called when Earth's surface is made of rigid slabs of rock or plates that move with respect to each other

5. As a slab sinks, it pulls on the rest of the plate with a force

7. A section of lithosphere that slowly moves over the asthenosphere carrying pieces of continental and oceanic crust

10. The process by which molten material adds new ocean crust to the ocean floor