Plate Tectonic Assignment
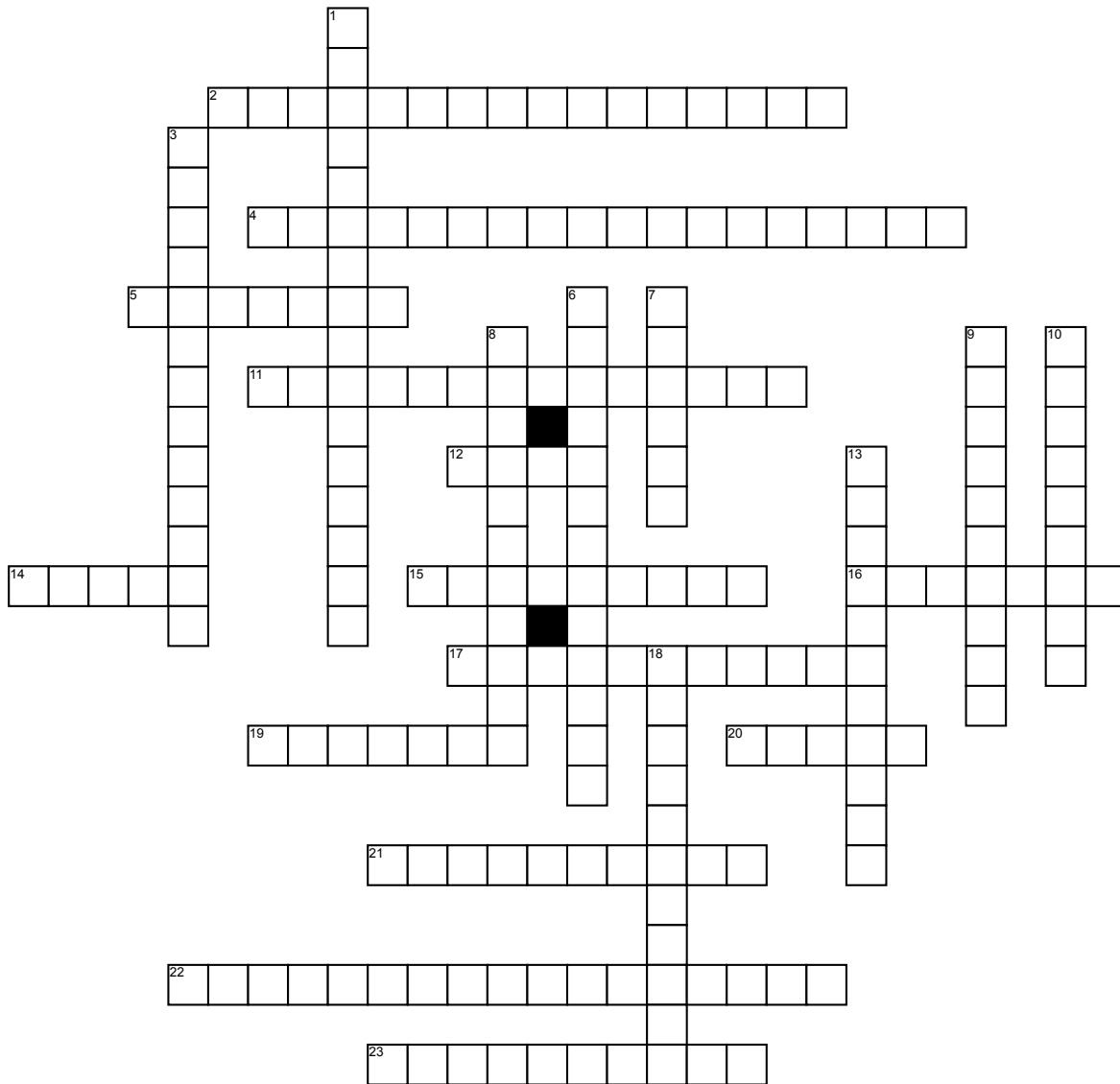
Across

2. a change of the magnetic poles resulting in a pattern that provides evidence for seafloor spreading and plate tectonics.

4. a current caused by the rising of heated fluid and sinking of cooled fluid; this is the engine that causes the tectonic plates to move

5. A bend in a layer of rock

11. a theory that states Earth's surface is made up of giant, moving slabs called tectonic plates

12. the center of the Earth, made of dense elements, divided into iner and outer sections

14. a break in Earth's crust along which blocks of rock move

15. two tectonic plate that move past each other horizontally in opposite directions, slowly scraping and building energy

16. supercontinent that included all current land masses

17. the outermost physical layer of Earth

19. Stress that stretches rock so that it becomes thinner in the middle and eventually breaks

20. The thin and solid outermost layer of the Earth above the mantle

21. the process by which one tectonic plate is pulled beneath another plate

22. the process by which new sea floor forms, where new rock forms

23. The lower more dense part of the mantle

Down

1. the gradual movement of the continents across the earth's surface

3. large tectonic moving pieces of the lithosphere

6. the Earth's physical layer of solid thin mantle material below the lithosphere

7. Earths thick middle compositional layer just below the crust

8. caused by stress

9. Collision of tectonic plates, they push against each other, and the denser plate sinks. There are two types: continental-continental and continental-oceanic

10. two tectonic plates move away from one another and allows the asthenosphere to move to the Earth's surface creating new lithosphere

13. Stress that squeezes rock until it folds or breaks

18. Energy released by earthquakes that travel through rocks outward