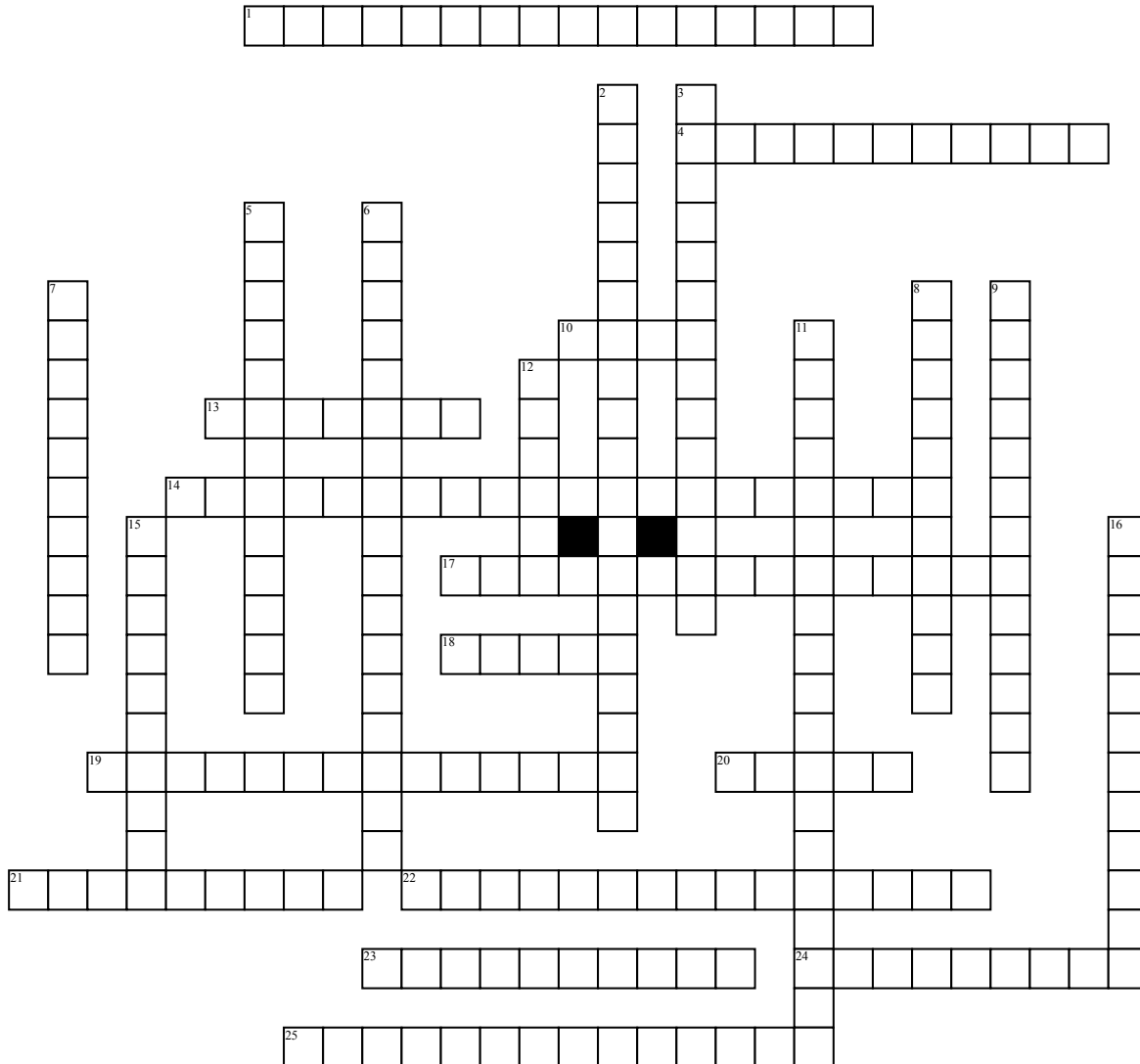


earth science



Across

1. The hypothesis that the world's continents move slowly over Earth's surface
4. One of earth's structural layers the lowest portion of the mantle a zone of strong rigid rock
10. Earth's inner most layer which is mostly iron and includes the inner core and outer core
13. The earth science that is concerned with the composition and structure of earth
14. Places where tectonic plates come together
17. Long deep steep troughs in the seafloor where an oceanic plate sinks beneath an overlying plate
18. Molten rock in earth's interior
19. The region where an oceanic plate sinks into the asthenosphere at a convergent plate boundary
20. Earth's surface layer consisting of oceanic and continental crust

21. One of earth's structural layers a shell of hot liquid metal beneath the mantle and above the inner core
22. The process by which earth forms layers according to density
23. The study of seismic waves, waves that travel through earth as a result of an earthquake or other disturbance
24. One of earth's structural layers a solid sphere of hot metal mostly iron at the center of earth
25. Separate pieces of lithosphere that move on top of the asthenosphere

Down

2. Places where tectonic plates slide along beside one another as they move
3. The theory that Earth's lithosphere is divided into large plates that move slowly around the globe

5. A global system of underwater mountains created by seafloor spreading
6. This process by which new lithosphere is created at mid ocean ridges as older lithosphere moves away
7. The sinking of oceanic lithosphere into the mantle
8. Earth's outermost structural layer consisting of cool rigid rock
9. A layer of weak, warm rock that flows slowly over geologic time
11. Places where tectonic plates pull apart
12. The thick layer of dense hot rock between earth's crust and core
15. The shaking of the ground that results in rock under earth's surface moving or breaking
16. The study of history, structure, and natural processes of planet earth