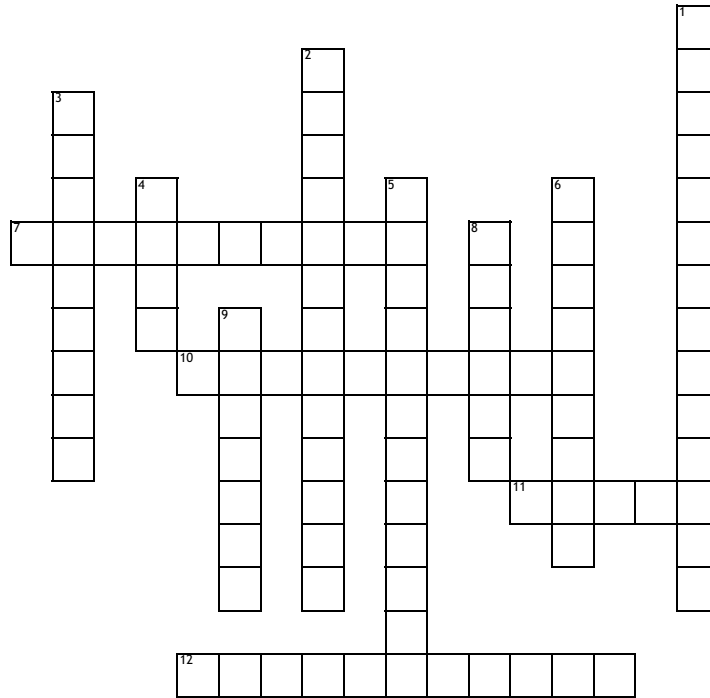


earth's layers



Across

7. physical lower part of the mantle that moves more slowly than the asthenosphere/ the middle physical layer
10. an instrument used to detect and measure seismic waves from earthquakes
11. thinnest, least dense and solid outermost layer of the earth
12. outer physical, stiff layer that includes the crust and part of the upper mantle; makes up tectonic plates that move around the earth's surface

Down

1. pieces of lithosphere that move around on top of the hot, flowing asthenosphere
2. physical layer below the lithosphere made of rock that flows very slowly (like silly putty)
3. liquid layer above the inner core made up mostly of iron and nickel
4. innermost, hottest layer of the earth
5. waves produced during earthquakes that can travel through the earth, scientists use these to determine the structure of the earth's interior
6. solid center of the earth made mostly of iron and nickel
8. thicker, more dense, and hotter compositional layer between the crust and the core
9. how compact a substance is in a certain area