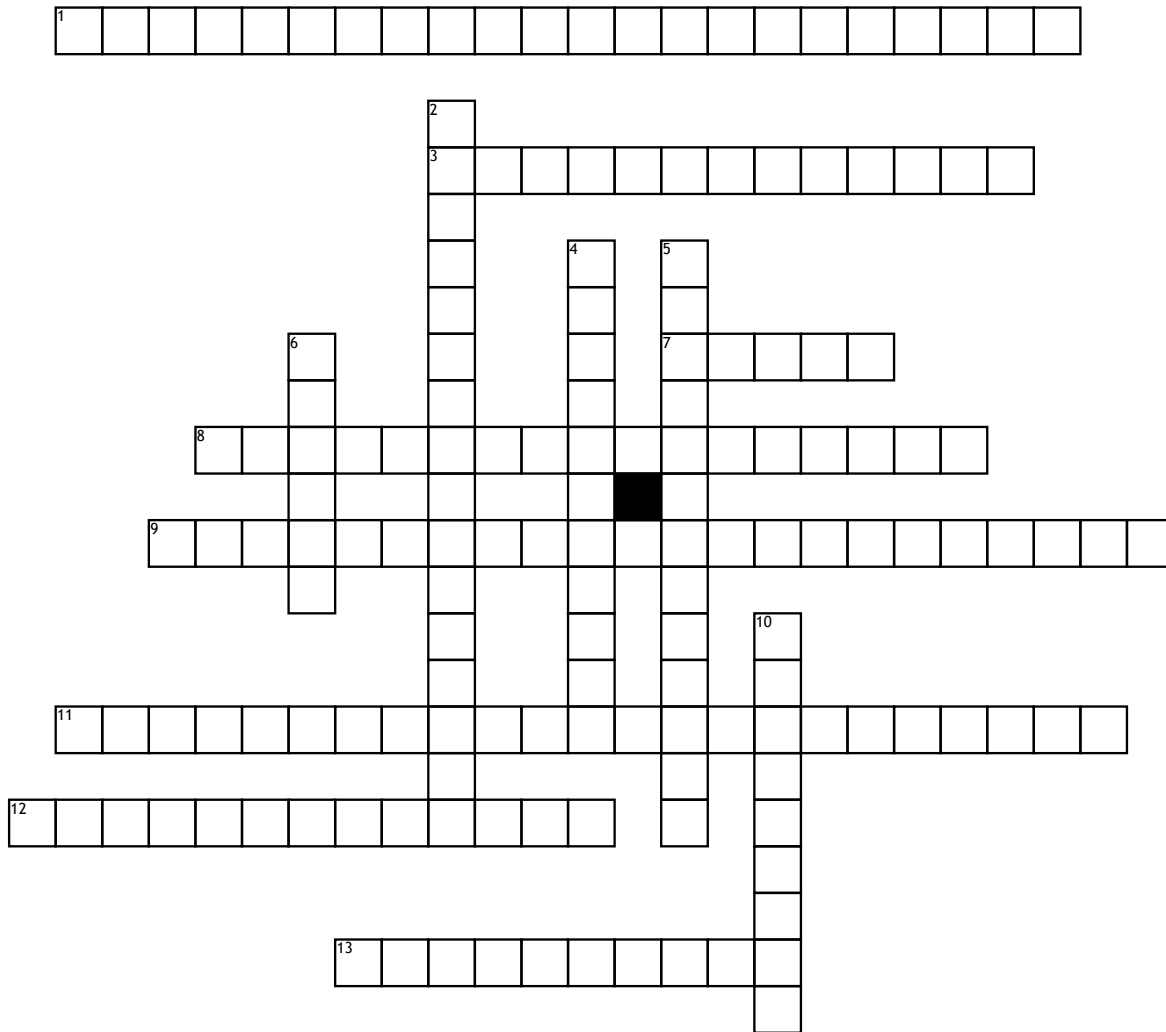


# The Dynamic Earth Puzzle



**Across**

- 1. The theory that continents have moved slowly to their current locations and continue to move.
- 3. The layer of the earth's mantle, below the lithosphere, in which there is relatively low resistance to plastic flow and convection is thought to occur.
- 7. The distance from the surface of the ocean to ocean floor.
- 8. The transfer of heat energy that results from magma becoming heated, less dense, and rising eventually cooling at the surface, becomes more dense and sinks..

- 9. A tectonic boundary where two plates are moving away from each other and new crust is forming from magma that rises to the Earth's surface between the two plates.
- 11. The process by which new oceanic crust forms along mid ocean ridges and older crust moves away from the ridge.
- 12. The divisions of Earth's outer shell that glide over the mantle.
- 13. The process where dense oceanic crust is forced under the less dense continental crust

**Down**

- 2. An event that causes the magnetic field to reverse its direction.
- 4. The rigid outer part of the earth, consisting of the crust and upper mantle.
- 5. A long narrow mountain chain found on the floor of the ocean.
- 6. The name of the supercontinent that existed 200 million years ago, when all the modern continents were connected.
- 10. One of the 7 great masses of land