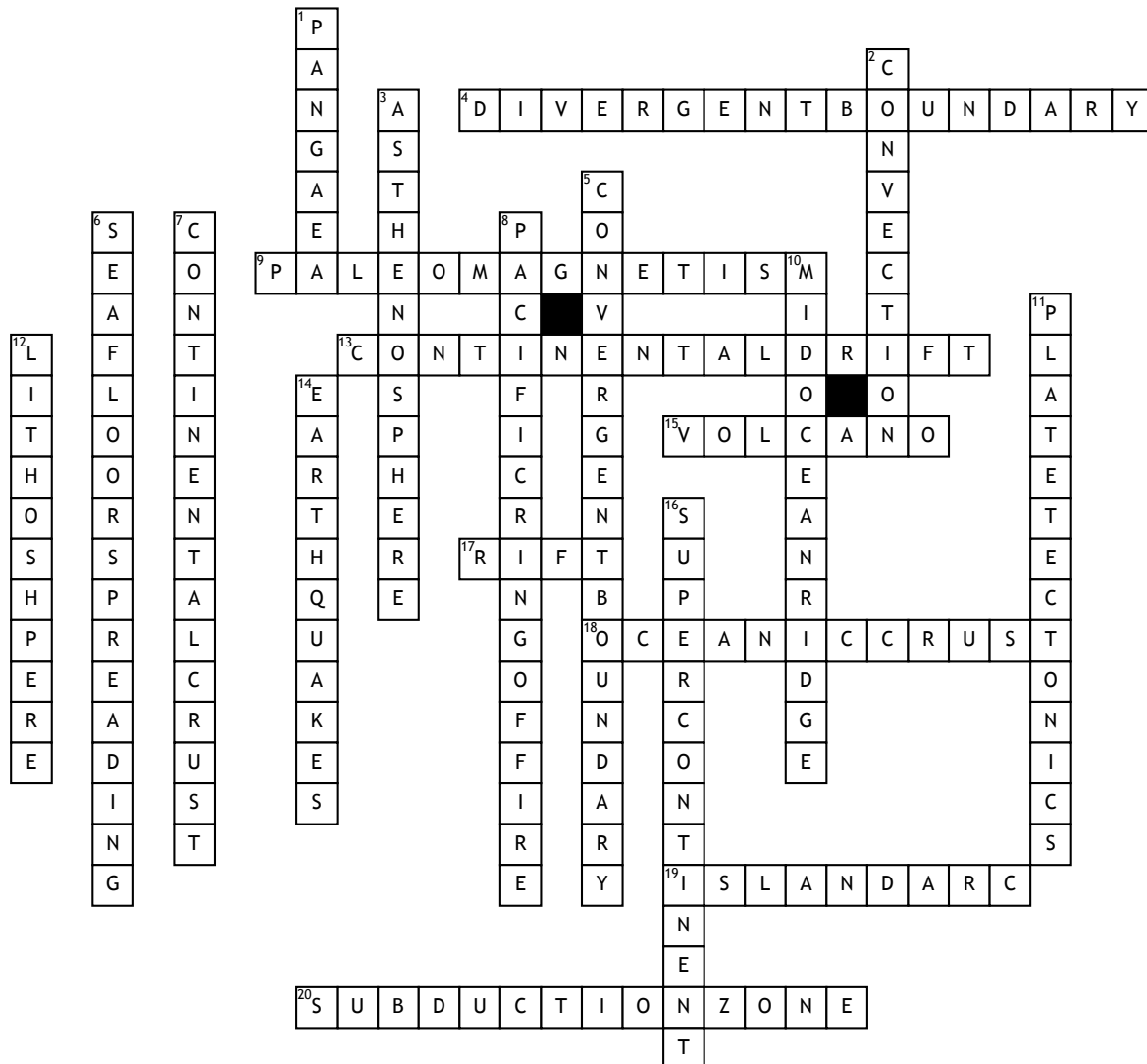


Name: _____

Date: _____

Crossword



Across

4. The boundary between tectonic plates that are moving away from each other

9. The study of the alignment of magnetic minerals in a rock

13. The hypothesis that states that the continents once formed a single land mass, broke up, and drifted to their present locations

15. A vent or fissure in the Earth's surface through which magma and gases are expelled

17. Proposed that the valley at the center of the ridge crack, or in Earth's crust

18. Dense, and is made of rock that is rich in iron and magnesium

19. A chain of volcanic islands

20. The region along a plate boundary where one plate moves under another plate

Down

1. A super continent

2. The movement of heated material due to differences in density that are caused by differences in temperatures

3. The solid, plastic layer of the mantle, made of the mantle rock that flows very slowly, which allows tectonic plates to move on top of it

5. The boundary between tectonic plates that are colliding

6. The process by which new oceanic lithosphere forms as magma rises to Earth's surface and solidifies at a mid ocean ridge

7. Low density and rich in silica

8. A zone of active volcanoes that encircles the Pacific Ocean

10. A long, undersea mountain chain that has a steep, narrow valley at its center, that forms as magma rises from the asthenosphere and that creates new oceanic lithosphere as tectonic plates move apart

11. The theory that explains how large pieces of the lithosphere, called plates, move and change shape

12. The solid, outer layer of Earth that consists of the crust and the rigid upper part of the mantle

14. When tectonic plates move, sudden shifts can occur along their boundaries

16. Wegner hypothesized that the continents once formed part of a single land mass.... This is called