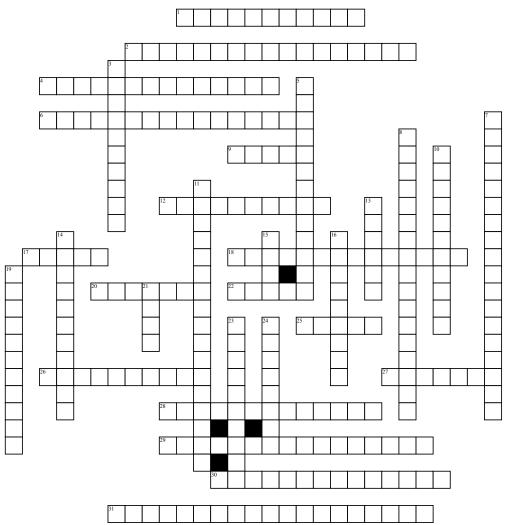
Rileys Set 1 Words



Across

- 1. the rigid outer part of earth made up of rocks in the crust attached to the upper part of the mantle.
- 2. the addition of new rock to plates moving apart under the oceans.
- **4.** the continuous circular pattern of fluids as they are heated and cooled.
- **6.** The idea that a past supercontinent split apart into pieces, which drifted over time to their present locations
- 9. a seismic wave that travels only through solids, vibrating at a right angle to its direction of travel; also called secondary wave
- 12. crust that lies beneath the oceans; made up of mostly basalt 17. the thin layer of solid rock that makes up the outermost part of earth
- 18. the theory that that earth is made up of separate, rigid plates that move slowly across the mantle
- 20. A place where molten rock, hot gasses, and solid rocks erupt through an opening in the earths crust; also a mountain that formed from these materials
- 22. the fastest seismic wave, which travels through gases, liquids, and solids; also called primary wave.
- **25.** molten, or melted rock deep below the surface of earth.

- **26.** the shaking of the ground that occurs when tectonic plates shift and change posisitions
- 27. Earths single landmass or "supercontinent" that is thought to have existed about 200 million years ago
- **28.** a vast underwater mountain chain that has been built up by the addition of new rock from below two tectonic plates moving apart under the oceans
- 29. crust that makes up earth's land; made up mostly of a relatively lightweight rock called granite
- **30.** a theory that lies other theories together to gave a more complete picture of natural occurrences, such as plate tectonics
- 31. a boundary between plates that are sliding past each other Down
- **3.** almost melted; used to describe mantle rocks below the lithosphere.
- 5. the layer of semimolten mantle rock that lies directly below the lithosphere.
- 7. A boundary between plates that are moving toward each other or colliding
- 8. A boundary between plates that are moving away from each other or pulling apart

- 10. a vibration that travels through earth and is produced by earthquakes and volcanic eruptions
- 11. The addition of new rock to plates moving apart under the oceans.
- ${\bf 13.}$ the thick layer of rock and molten rock that lies beneath the earth's crust
- 14. a seismic wave that is trapped near the surface of earth
- 15. molten rock that flows up onto the surface of earth
- 16. a scientist that studies Earths origin, history, structure, composition, and processes
- 19. a long narrow, deep valley on the ocean floor trenches are the deepest parts of the ocean
- 21. the central part of Earth that lies beneath the mantle and is made up of an outer, liquid part and inner, solid part
- 23. a process that occurs when tectonic plates converge and one plate sinks or slides under the other.
- **24.** a seismic wave that travels through the interior of earth; two types are p waves and s waves.

Word Bank

Divergent boundary

seafloor spreading surface wave earthquake core body wave lava lithosphere asthenosphere seafloor spreading unifying theory p wave geologist plate tectonics Convergent boundary continental crust ocean trench s wave convective flow semi-molten subduction Pangaea continental drift magma seismic wave transform boundaries mid-ocean ridge mantle ocean crust Volcano crust