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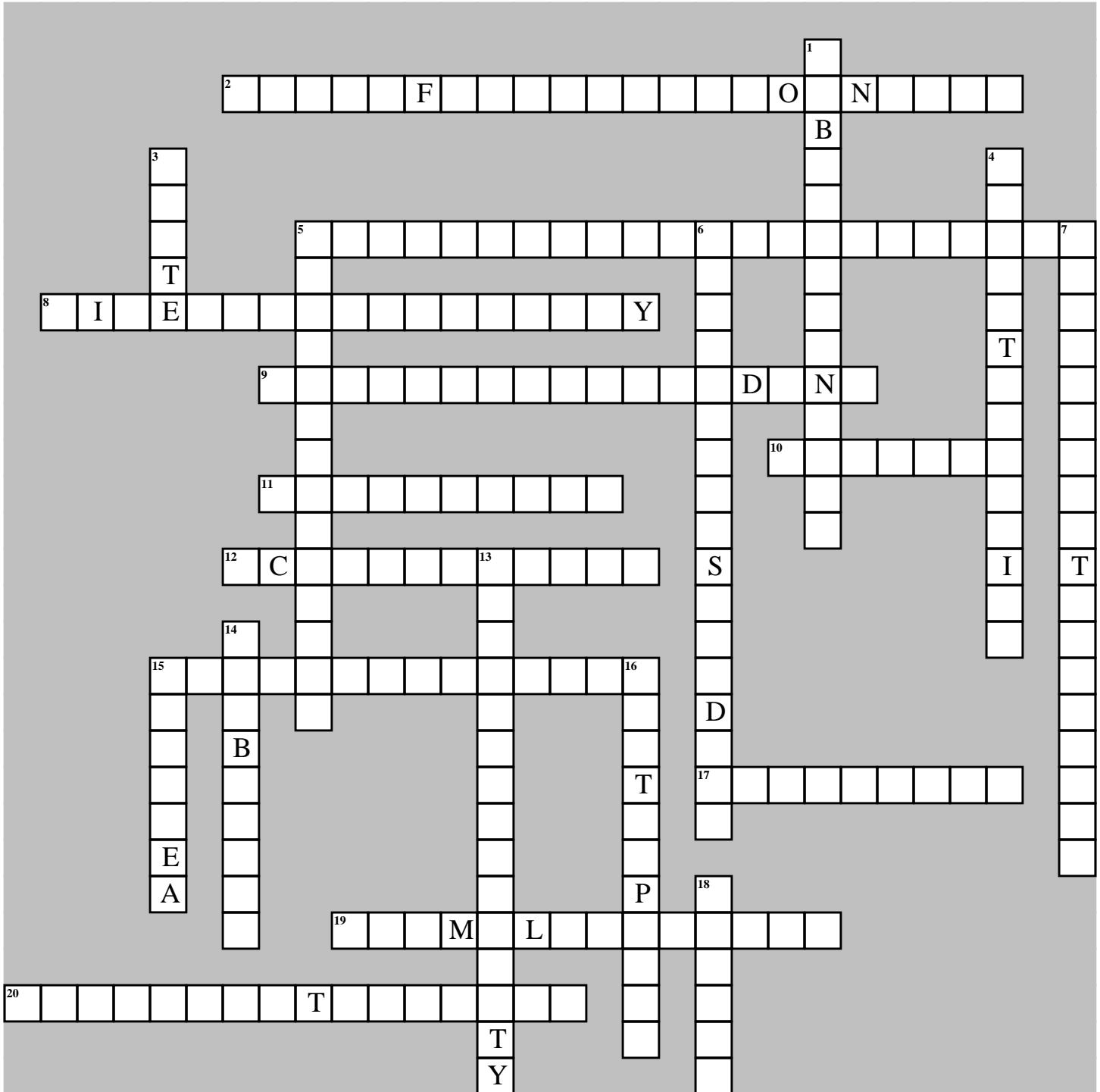
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(Key # 1 - 865129)

Earth Science - Chapter 9

Complete the crossword puzzle.



**HOTSPOT
CONTINENTALVOLCANICARC
PALEOMAGNETISM
REVERSEPOLARITY
TRANSFORMFAULTBOUNDARY
SUBDUCTIONZONE
SEAFLOORSPREADING
PLATE
DIVERGENTBOUNDARY
OCEANICRIDGE
NORMALPOLARITY**

**CONTINENTALDRIFT
RIFTVALLEY
SLAB-PULL
VOLCANICISLANDARC
TRENCH
RIDGEPUSH
PLATETECTONICS
PANGAEA
MANTLEPLUME
CONVECTIVEFLOW
CONVERGENTBOUNDARY**

Across

- 2 boundary formed when two plates slide past each other in the same direction at different speeds, or slide past each other in opposite directions; the San Andreas Fault is an example. (3 words)
- 5 mountains formed in part by volcanic activity caused by the subduction of oceanic lithosphere beneath a continent. (3 words)
- 8 This is where two plates are moving away from each other. New crust is formed here. (2 words)
- 9 the theory that magma from Earth's mantle rises to the surface at mid-ocean ridges and cools to form new seafloor (2 words)
- 10 an area in the middle of a lithospheric plate where magma rises from the mantle and erupts at the Earth's surface. Volcanoes sometimes occur above a hot spot. (2 words)
- 11 deep valley that forms where 2 (divergent) plates move apart (2 words)
- 12 A continuous elevated zone on the floor of all major ocean basins; the rifts at the crests of the ridges represent divergent plate boundaries. (2 words)
- 15 The study of changes in Earth's magnetic field, as shown by patterns of magnetism in rocks that have formed over time.
- 17 a mechanism that may contribute to plate motion; It involves the oceanic lithosphere sliding down the oceanic ridge under the pull of gravity. (2 words)
- 19 a magnetic field that is the same as that which exists at present (2 words)

- 20 Wegener's hypothesis that all continents were once connected in a single large landmass that broke apart about 200 million years ago and drifted slowly to their current positions. (2 words)

Down

- 1 Where two lithospheric plates come together, one riding over the other. Most volcanoes on land occur parallel to and inland from the boundary between the two plates (2 words)
- 3 a large section of Earth's oceanic or continental crust and rigid upper mantle (lithosphere) that moves around on the asthenosphere.
- 4 The theory that the earth's outer shell is composed of a number of large, unanchored plates, or slabs of rock, whose constant movement explains earthquakes and volcanic activity. (2 words)
- 5 the motion of matter resulting from changes in temperature (2 words)
- 6 a chain of volcanic islands generally located a few hundred miles from a trench where subduction of one oceanic slab beneath another is occurring. (3 words)
- 7 A plate boundary where two plates move toward each other. (2 words)
- 13 a magnetic field opposite to that which exists at present. (2 words)
- 14 a mechanism that contributes to plate motion in which cool, dense oceanic crust sinks into the mantle and "pulls" the trailing lithosphere along

- 15 The single giant landmass that existed more than 200 million years ago and that gave rise to the present-day continents.
- 16 a mass of hotter-than-normal mantle material that ascends toward the surface, where it may lead to igneous activity (2 words)
- 18 A long, deep, narrow area like a valley or canyon in the ocean floor.



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Complete the crossword puzzle.

