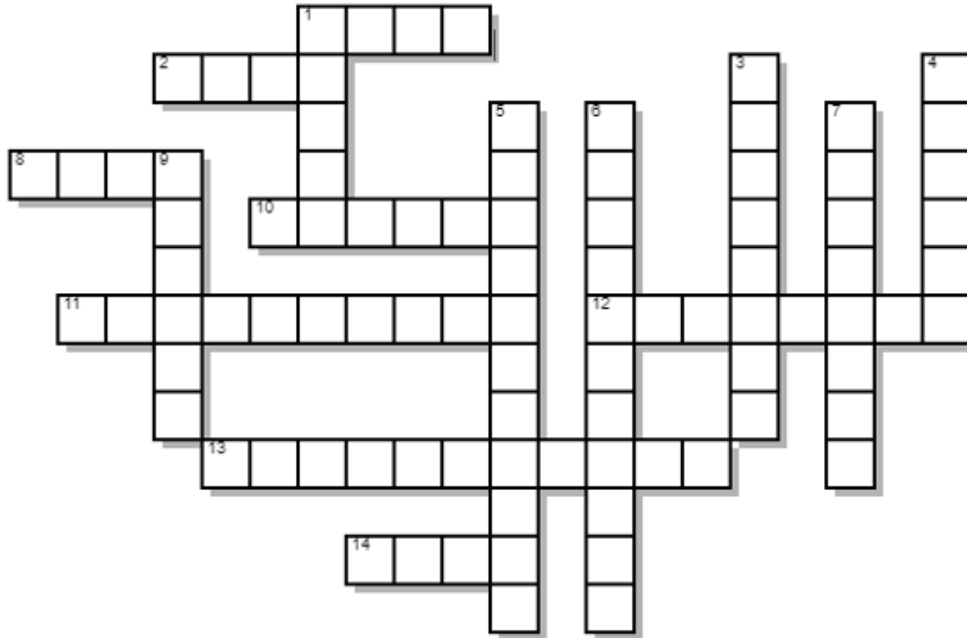


# EARTH SCIENCE WEEK

## EARTH MATERIALS IN OUR LIVES

### CROSSWORD CHALLENGE

# GEOLGY 2



**Word Bank:**

<b>MICA</b>	<b>MAGMA</b>	<b>LAVA</b>	<b>COAL</b>	<b>TECTONIC</b>
<b>GABBRO</b>	<b>FAULTS</b>	<b>FLOODPLAIN</b>	<b>GROUNDWATER</b>	
<b>MEANDERS</b>	<b>SEDIMENTARY</b>	<b>PYROCLASTIC</b>	<b>PAHOEHOE</b>	
	<b>DYKE</b>	<b>LAGOON</b>		

- Across:**
1. Mineral with a shiny, flaky appearance. Common in granite and metamorphic rocks such as schist and gneiss
  2. Molten rock (e.g. Basalt) erupted from a volcano. See also magma (which is not quite the same thing!)
  8. Sedimentary rock made up of compressed and carbonized plant material. An important "fossil fuel"
  10. A dark-colored, coarse-grained, igneous rock; cooled slowly in large intrusions (same chemical composition as basalt).

- Down:**
1. Molten rock with dissolved volcanic gases, beneath the Earth's surface.
  2. Rigid portions of the lithosphere that are constantly moving, exerting huge forces in the Earth's crust.
  4. A deep crack caused by movement of rock during earthquakes. Different rock types are often seen on each side of a fault.



### Across:

11. A flat valley floor in which a river meanders, and which may be flooded from time to time after heavy rain.
12. Natural bends formed as a river flows across its floodplain.
13. The dense flow of hot gas, volcanic ash and rock fragments erupted from a volcano, that can move downhill at speeds of over 100 mph!
14. an intrusion of igneous rock, formed when magma flows toward the surface through cracks or faults, cutting through the rock layers.

### Down:

5. Water trapped in gaps between the grains of rocks (usually sedimentary rocks) beneath the surface. See also porosity.
6. Any rock made up of sediment grains. Examples: mudstone, sandstone, limestone, rock salt, coal.
7. A "ropy" surface formed as cooling lava forms a "skin" which rucks up into folds and twists as the lava flows beneath it.
8. An area of shallow water enclosed by sand banks or reefs. Tropical lagoons may also have small "patch reefs" growing within them.

