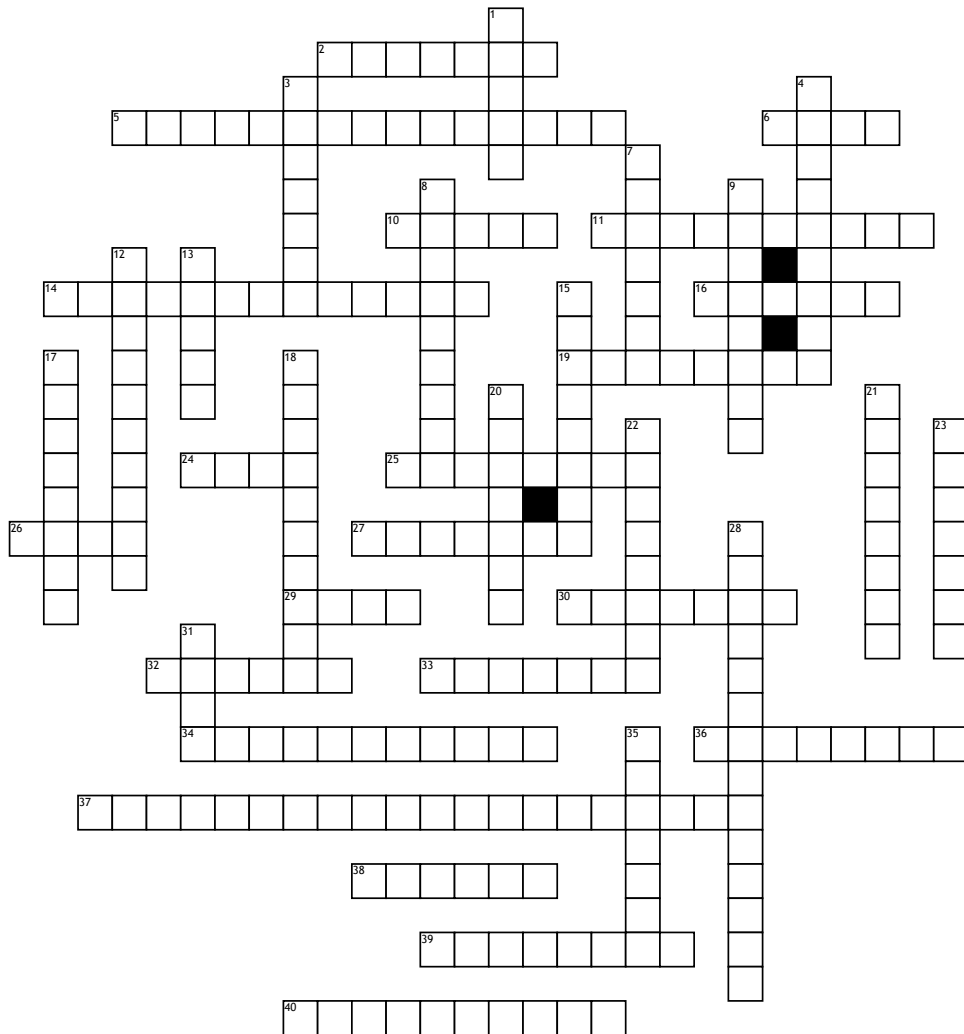


# ROCKS, SOIL, AND MINERALS



**Across**

- 2. a silvery-white metal in the actinide series of the periodic table
- 5. minerals or substances that occur in nature and can be used for economic gain.
- 6. a fracture in rock containing a deposit of minerals or ore
- 10. a component of soil formed by the decomposition of leaves and other plant material
- 11. a group of dark-colored amphibole minerals found in many types of igneous and metamorphic rocks
- 14. slightly broken up rock. plants roots cannot go through this layer. Mostly inorganic.
- 16. Made up of sodium chloride and colorless cubic crystals
- 19. extracting a metal from ore by BLANK
- 24. Largest particle dries quickly and texture is rough and gritty.
- 25. a reddish-black mineral consisting of ferric oxide
- 26. India is the largest producer of this mineral
- 27. the process by which the surface of the earth is worn away by the action of water, glaciers, winds, waves, ext.
- 29. Medium sized particles, texture is smooth and powdery when dry and slippery when wet.
- 30. loose soil that is rich in organic material needed by plants

- 32. a metamorphic rock that may be foliated or nonfoliated
- 33. This chemical element has the symbol S and atomic number of 16
- 34. What the soil is composed of air, water, nutrients, and organic matter
- 36. Depends on how many pores and the size of the pores
- 37. a natural resource that we need to use carefully because it cannot be
- 38. the extraction of valuable minerals or geological materials from the earth.
- 39. The word from sweden directly translates to heavy stone
- 40. hydrocarbons created from the remains of formerly living organisms used for energy.

**Down**

- 1. Mostly made of decaying leaves, twigs, and animal remains/waste
- 3. a carbonate mineral and the most stable polymorph of calcium carbonate
- 4. the break down of rock and minerals by rain, acid, salt, wind, and
- 7. a name used for a large group of black mica minerals that are commonly found in igneous and metamorphic rocks

- 8. also known as common mica, isinglass, or potash mica
- 9. the process of scraping or wearing away
- 12. flammable gas, consisting largely of methane and other hydrocarbons
- 13. a soft finely stratified sedimentary rock that formed from consolidated mud or clay
- 15. a hard, dark, glasslike volcanic rock formed by the rapid solidification of lava without crystallization
- 17. a low-grade iron ore consisting largely of chert
- 18. A fossil formed when sediment fills the inside or covers the outside of a dead organism
- 20. a silvery-white metal in the actinide series of the periodic table
- 21. unrefined petroleum
- 22. A mineral usually made up of colorless or pale-colored crystals
- 23. a machine that collects oil
- 28. used to identify different types of soil
- 31. a clay mineral composed of hydrated magnesium silicate
- 35. a mixture of hydrous aluminum oxides, aluminum hydroxides, clay minerals, and insoluble materials

**Word Bank**

abrasion  
 smelting  
 CRUDE OIL  
 feldspar  
 TACONITE  
 POROSITY  
 guahers  
 MUSCOVITE  
 hornblende  
 TALC

NATURAL GAS  
 VEIN  
 SAND  
 URANIUM  
 mold fossil  
 mica  
 humus  
 HUMUS  
 WEATHERED ROCK  
 URANIUM

NONRENEWABLE RESOURCE  
 MARBLE  
 FOSSIL FUEL  
 halite  
 SULPHUR  
 EROSION  
 hematite  
 biotite  
 MINING  
 TUNGSTEN

obsidian  
 SOIL PROPERTIES  
 wethering  
 COMPOSITION  
 SILT  
 CALCITE  
 BAUXITE  
 NATRUAL RESOURCE  
 SHALE  
 TOPSOIL