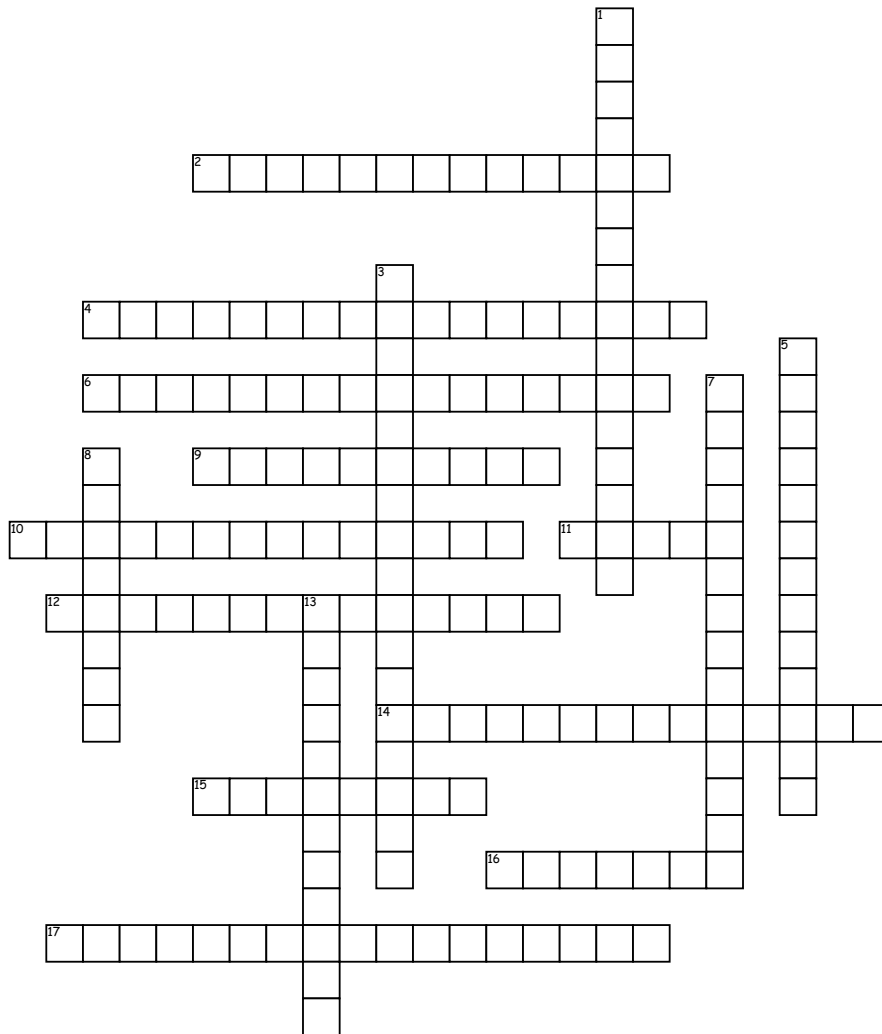


The Rock and Fossil Record - Crossword 1



Across

- 2. Principle stating that younger rocks lie above older rocks in undisturbed sequences
- 4. Using the ratio of parent material to daughter material to determine absolute age
- 6. Disruption of rock sequences that can tilt or fold rock layers, putting older rock above younger rock.
- 9. Philosopher and scientist considered the father of *Geology*
- 10. An ideal sequence of rock layers containing all the known fossils and rock formations on Earth arranged from oldest to youngest.
- 11. A break in the Earth's crust along which blocks of the crust slide relative to one another

- 12. Isotope used to date rocks older than 100,000 years
- 14. Process of establishing the age (in years) of an object, such as a rock layer or fossil
- 15. The time it takes for one-half of a radioactive sample to decay
- 16. This example of disturbed rock occurs when rock layers bend and buckle from Earth's internal forces
- 17. Principle stating that geologic processes that shape Earth act at a continuous rate over

- 5. Principle stating that all geologic change occurs suddenly
- 7. Process of determining whether an object or event is older or younger than other objects or events
- 8. Atoms of the same element that have the same number of protons but different numbers of neutrons
- 13. A surface that represents a missing part of the geologic column

Down

- 1. process by which unstable, radioactive isotopes break down into stable isotopes of other elements
- 3. Type of Radiometric Dating used to date rocks more than 10 million years old

Word Bank

- | | | | |
|--------------------|-------------------|------------------|------------------|
| JohnHutton | RelativeDating | PotassiumArgon | RadioactiveDecay |
| Uranium-LeadDating | Fault | Folding | GeologicColumn |
| Unconformity | uniformitarianism | DisturbingForces | AbsoluteDating |
| Superposition | Catastrophism | isotopes | HalfLife |
| RadiometricDating | | | |