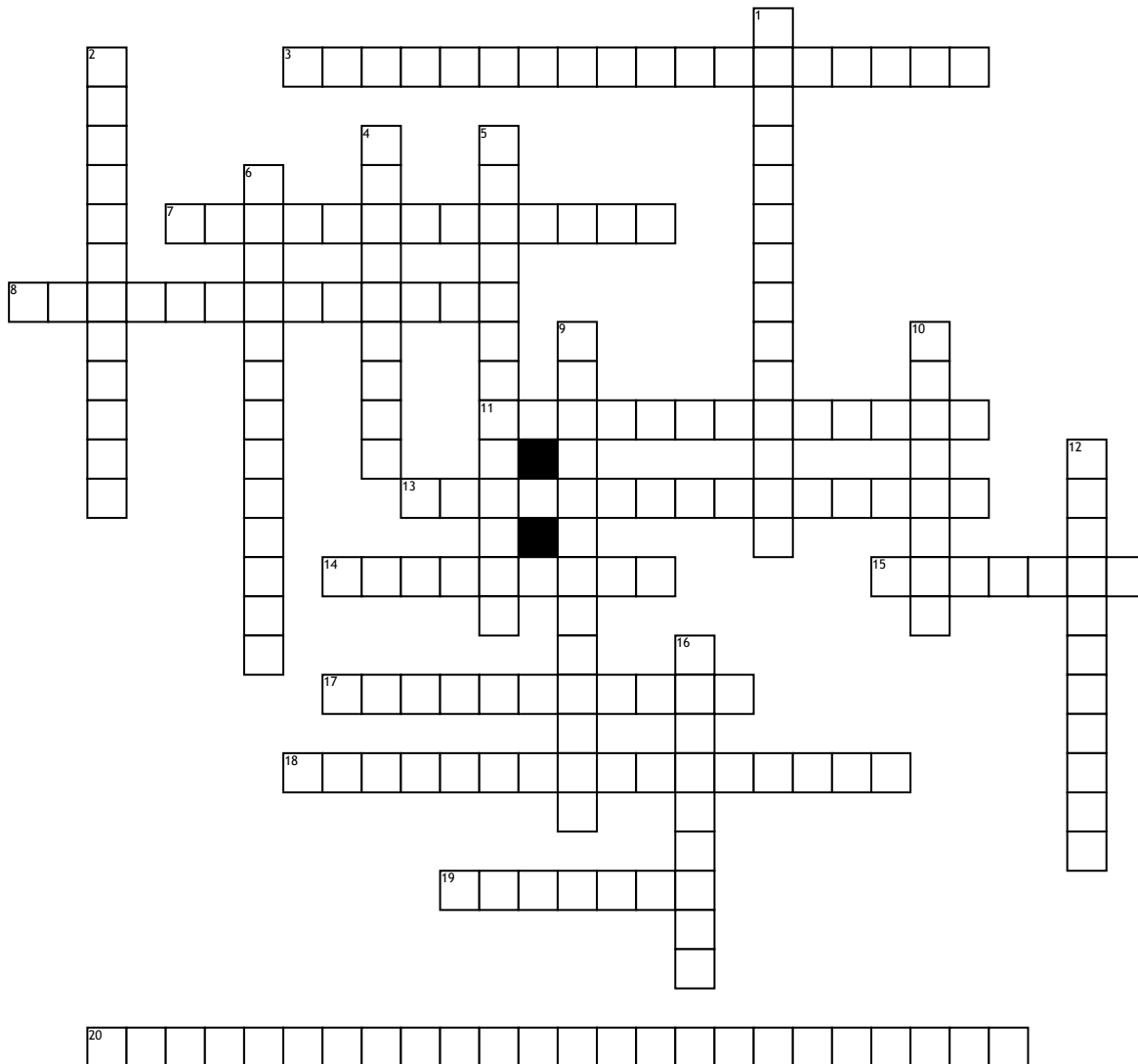


physical science



Across

3. Electric current that reverses its direction of flow in a regular pattern

7. A device that uses an electromagnet to measure electric current

8. Electric current that flows in only one direction

11. Surrounds a magnet and exerts a force on other magnets

13. Group of atoms in a magnetic material

14. The properties and interactions of magnets

15. Renewable organic matter from plants and animals

17. Device that uses electromagnetic induction to increase or decrease the voltage of an alternating current

18. Electricity produced from the energy of falling water

19. Large wheel that rotates when pushed by steam, wind or water and provides mechanical energy to a generator

20. Process in which electric current is produced in a wire loop by a changing magnetic field

Down

1. Uses energy from a controlled nuclear chain reaction

2. Radioactive by product that result when radioactive materials are used

4. Device that uses electromagnetic induction to convert mechanical energy to electrical energy

5. Temporary magnet made by wrapping a wire coil, carrying a current, around an iron core

6. Device that converts electrical energy to mechanical energy by using the magnetic forces

9. Region on a magnet where the magnetic force exerted by a magnet is strongest

10. A wire wrapped into a cylindrical coil

12. Oil, natural gas, coal formed from the decayed remains of ancient plants and animals

16. Liquid fossil fuel formed from decayed remains of ancient organisms