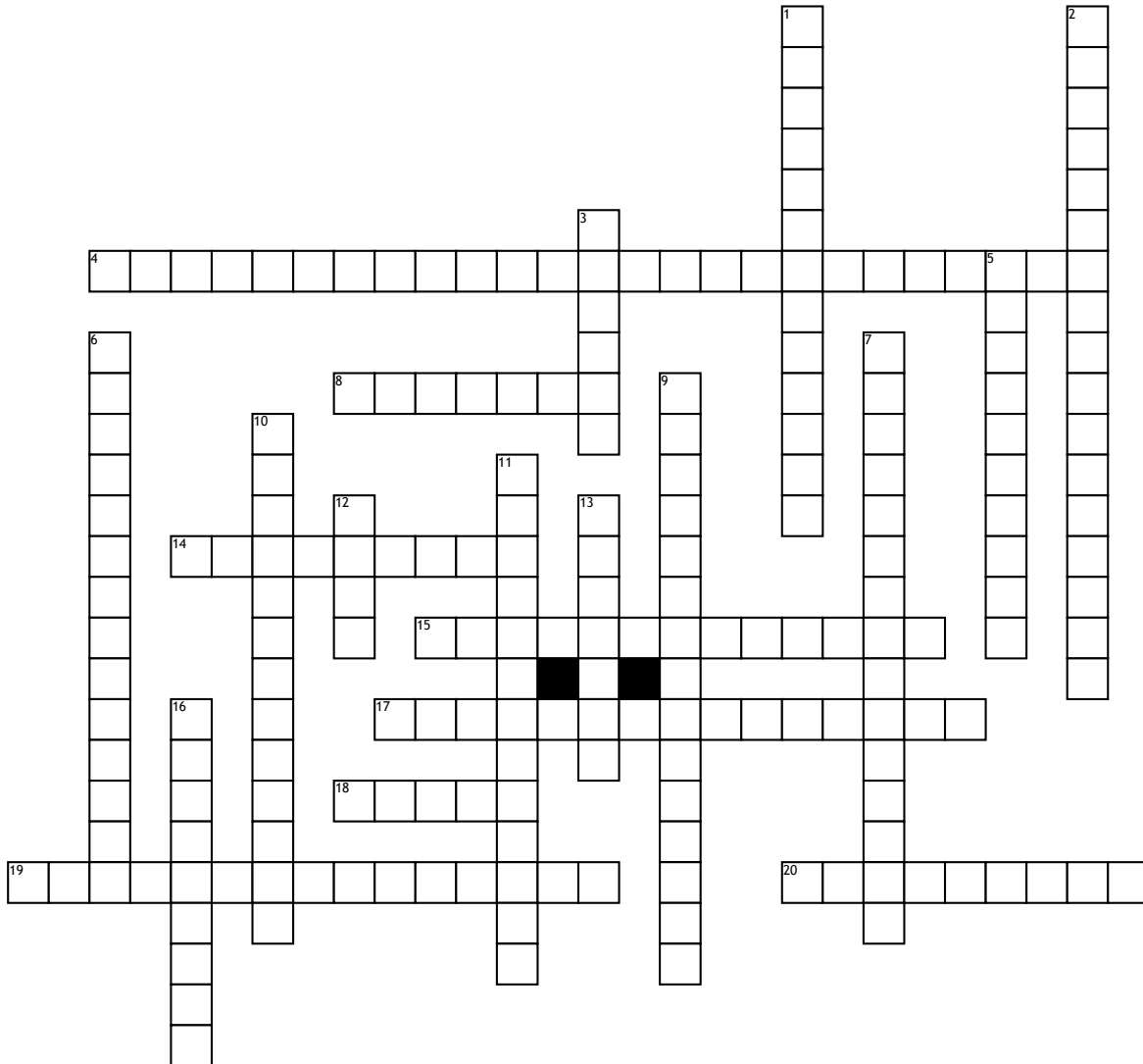


Electricity and Magnetism



Across

4. states that charge can be transferred from one object to another but cannot be created nor destroyed.
 8. SI unit for electrical potential difference
 14. material that can carry electricity or heat
 15. The force of attraction or repulsion between objects due to charge
 17. the pathway that an electric current follows
 18. a device that changes electrical energy into energy of motion
 19. a circuit in which parts are connected so that the electric current passes along more than one pathway

20. a device that uses magnetism to convert energy of motion into electrical energy

Down

1. a temporary magnet that uses electricity to produce magnetism
 2. an electric charge that builds up on a material
 3. an object that attracts iron and certain other materials
 5. tendency for a material to oppose electron flow and change electrical energy into thermal energy and light; measured in ohms (Ω). Caused by internal friction
 6. A device that protects a circuit from current overloads
 7. a continuous flow of electric charges

9. tiny particles that carry units of electricity

10. the two areas on a magnet where the magnetic force is greatest
 11. a circuit in which the parts are connected so that the electric current passes through each part along a single pathway
 12. A device containing a metal strip that melts when current in the circuit becomes too great.
 13. a device that turns chemical energy into electrical energy
 16. material that resist the flow of electricity or heat