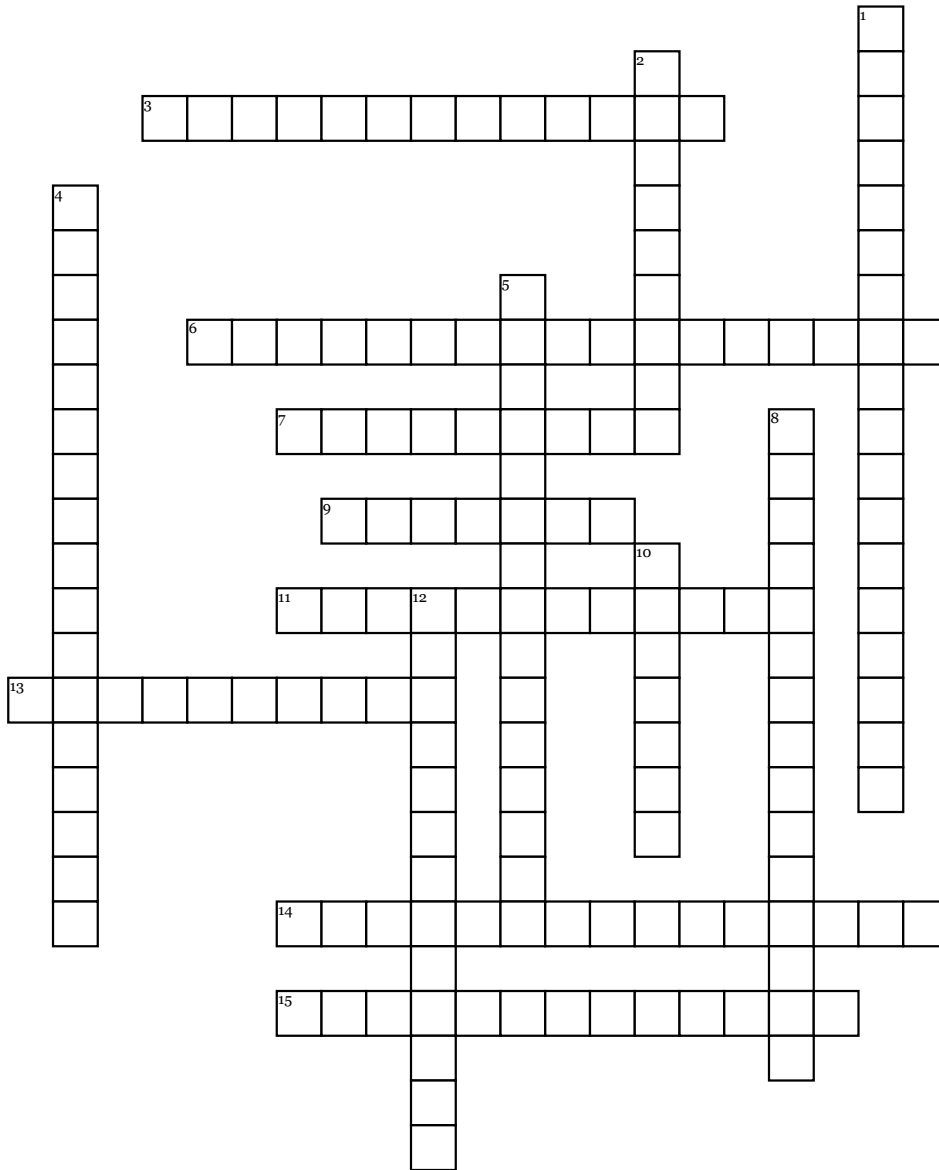


# Electricity



**Across**

- 3. the electrical current flows in only one direction in a circuit.
- 6. the accumulation of excess electric charge of an object.
- 7. a material, such as copper wire, through which electrons can move easily.
- 9. the unit of measurement for the flow of electrons.
- 11. the outer shell of any atom.
- 13. tendency for a material to oppose electron flow and to convert electrical energy into other forms of energy, measured in ohm's.

- 14. a closed path that an electric current follows.
  - 15. circuit in which electric current has only one path to follow.
- Down**
- 1. the electrical current is alternating directions in a repeating pattern.
  - 2. a material in which electrons and thermal energy are not able to move easily.
  - 4. related to the force that causes electrical charges to flow, measured in volts.

- 5. rate at which electrical energy is converted into another form of energy; expressed in watts
- 8. circuit in which electric current has more than one path to follow.
- 10. states that the current in a circuit equals the voltage difference divided by the resistance.
- 12. surrounds every electric charge and exerts the force that causes other electric forces to be repelled or attracted.