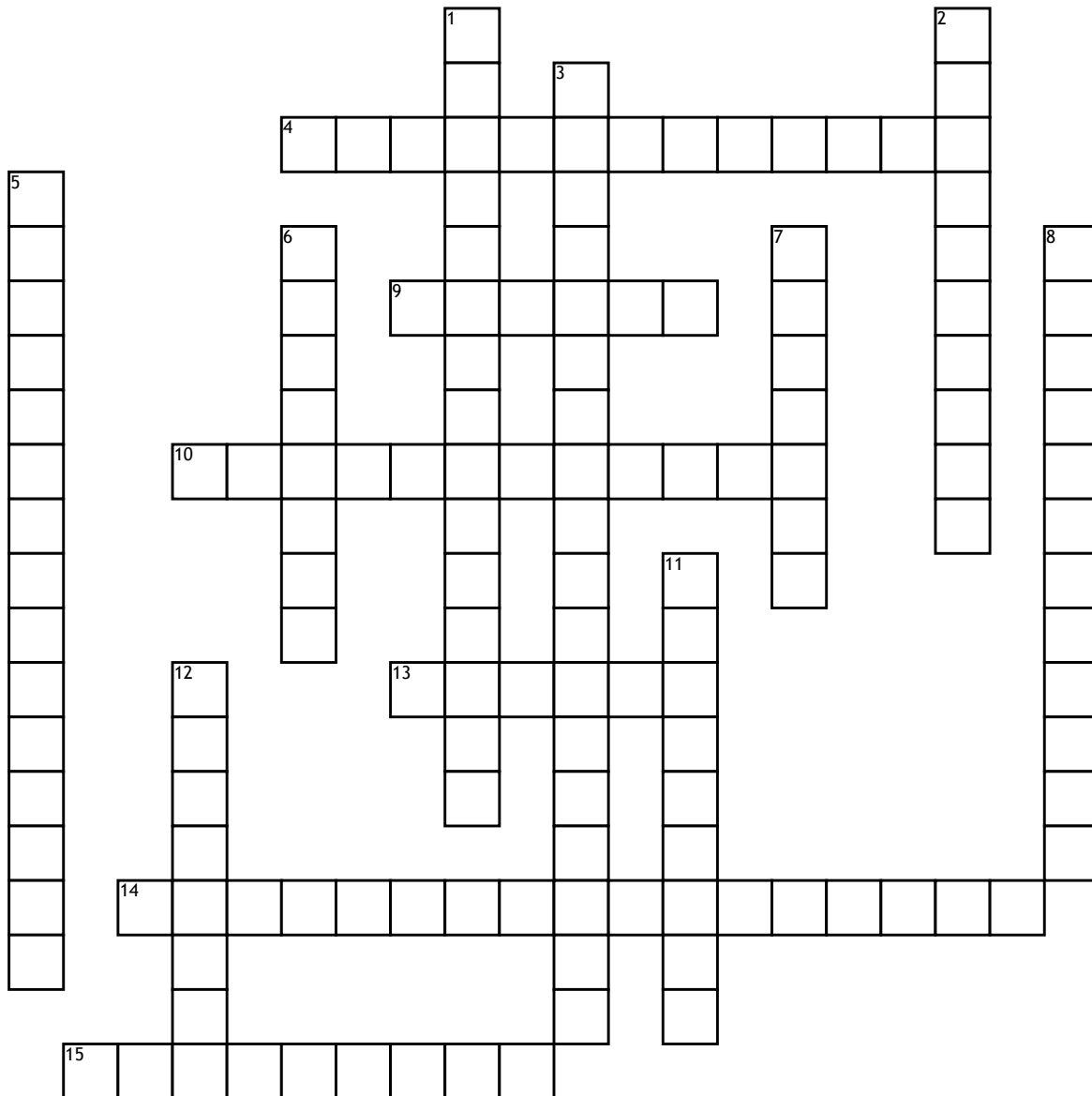


Electricity



Across

4. These are responsible for electric current
 9. Much larger and heavier than electrons
 10. The outer shell of an atom
 13. A circuit in which electric current has only one path to follow
 14. The accumulation of excess electrical charge on an object
 15. A material through which electrons can move easily

Down

1. The net movement of electric charges in a single direction
 2. Tendency for material to oppose electron flow and to convert electrical energy in other forms of energy
 3. The invisible force field that surrounds electrons
 5. The rate at which electrical energy is converted to another form of energy

6. A circuit in which electric current has more than one path to follow

7. States that the current in a circuit equals the voltage difference divided by the resistance

8. A device, sometimes consisting of two leaves of metallic foil, used to detect electric charge

11. A material through which electrons and thermal energy are not able to move easily

12. The smallest and lightest particle in an atom