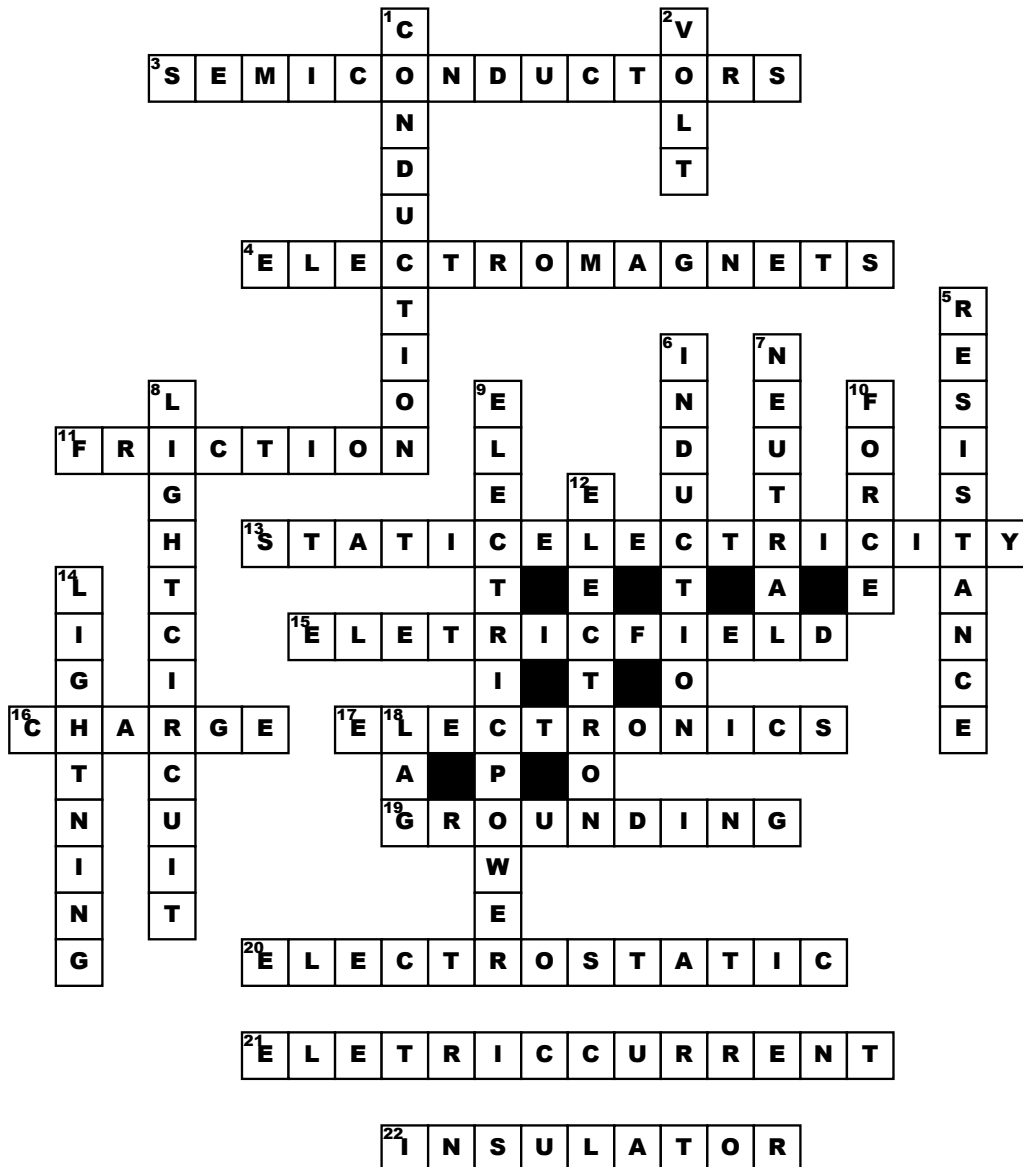


# Electricity



**Across**

- 3. have special properties that make them fair conductors not good conductors
- 4. Electric currents generate magnetic fields, and changing magnetic fields generate electric currents
- 11. the transfer of electrons between two neutral objects
- 13. an imbalance of electric charges within or on the surface of a material
- 15. an especially simple type of electromagnetic field produced by an electric charge even when it is not moving
- 16. a form of charge that exerts an electric force

- 17. deals with electrical circuits that involve active electrical components
  - 19. connecting an object to a large body like Earth
  - 20. a list of materials arranged in order of their tendency to gain electrons
  - 21. a measure of the rate of electron flow past a given point in a circuit
  - 22. a material that does not easily allow the movement of electrons
- Down**
- 1. charging an object by contact with a charged object
  - 2. the SI unit of electromotive force
  - 5. the ability of a material to oppose the flow of electric current

- 6. charging a neutral object by bringing another charged object close but not touching
- 7. an object that has equal numbers of protons and electrons
- 8. wiring that provides power to lights
- 9. the rate at which electric energy is transferred by an electric circuit
- 10. the force exerted by an object with an electric charge
- 12. a subatomic particle with a negative elementary electric charge
- 14. an electric discharge that occurs between clouds
- 18. The condition where the current is delayed in time to the voltage in an circuit