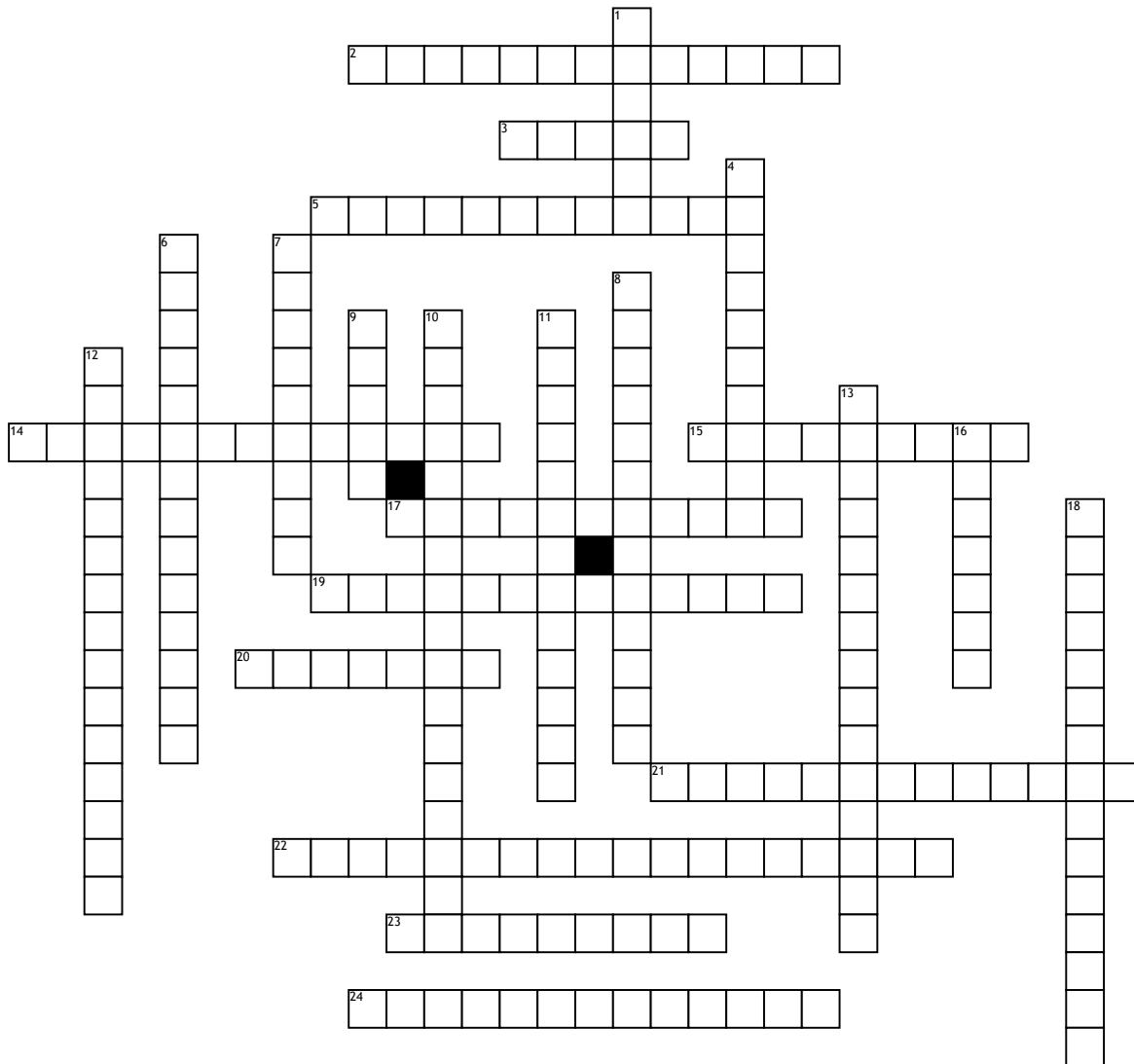


electricity and magnetism



Across

2. an electric current flowing in one direction only.
3. device that transforms electrical energy
5. Static electricity is an imbalance of electric charges within or on the surface of a material
14. The electric force is one of the most powerful, fundamental forces in the universe
15. a substance or device which does not readily conduct electricity.
17. megatron bumblebee opitmus prime ratchet
19. electric power is the rate per unit time, at which electrical energy is transferred by an electric circuit
20. A closed path through which an electric current flows or may flow. Circuits in which a power source is connected to two or more components one after the other.
21. An electric field is a vector field surrounding an electric charge that exerts force on other charges, attracting or repelling them

22. an electric current that reverses its direction many times a second at regular intervals, typically used in power supplies.

23. a dynamo or similar machine for converting mechanical energy into electricity.

24. a region around a magnetic material or a moving electric charge within which the force of magnetism acts.

Down

1. a natural electrical phenomenon characterized by the appearance of streamers of reddish or greenish light in the sky, usually near the northern or southern magnetic pole.

4. a measure of how difficult it is for electrons to move

6. A magnetic domain is a region within a magnetic material in which the magnetization is in a uniform direction

7. a material or device that conducts or transmits heat, electricity, or sound, especially when regarded in terms of its capacity to do this

8. the region surrounding the earth or another astronomical body in which its magnetic field is the predominant effective magnetic field.

9. device that transforms electrical energy

10. An electric discharge is the release and transmission of electricity in an applied electric field through a medium such as a gas.

11. A series circuit is a closed circuit in which the current follows one path, as opposed to a parallel circuit where the circuit is divided into two or more paths.

12. a soft metal core made into a magnet by the passage of electric current through a coil surrounding it.

13. An electric current is a flow of electric charge. In electric circuits this charge is often carried by electrons moving through a wire.

16. Ohm found that, at a constant temperature, the electrical current flowing through a fixed linear resistance is directly proportional to the voltage applied across it, and also inversely proportional to the resistance.

18. circuit that has more than one path