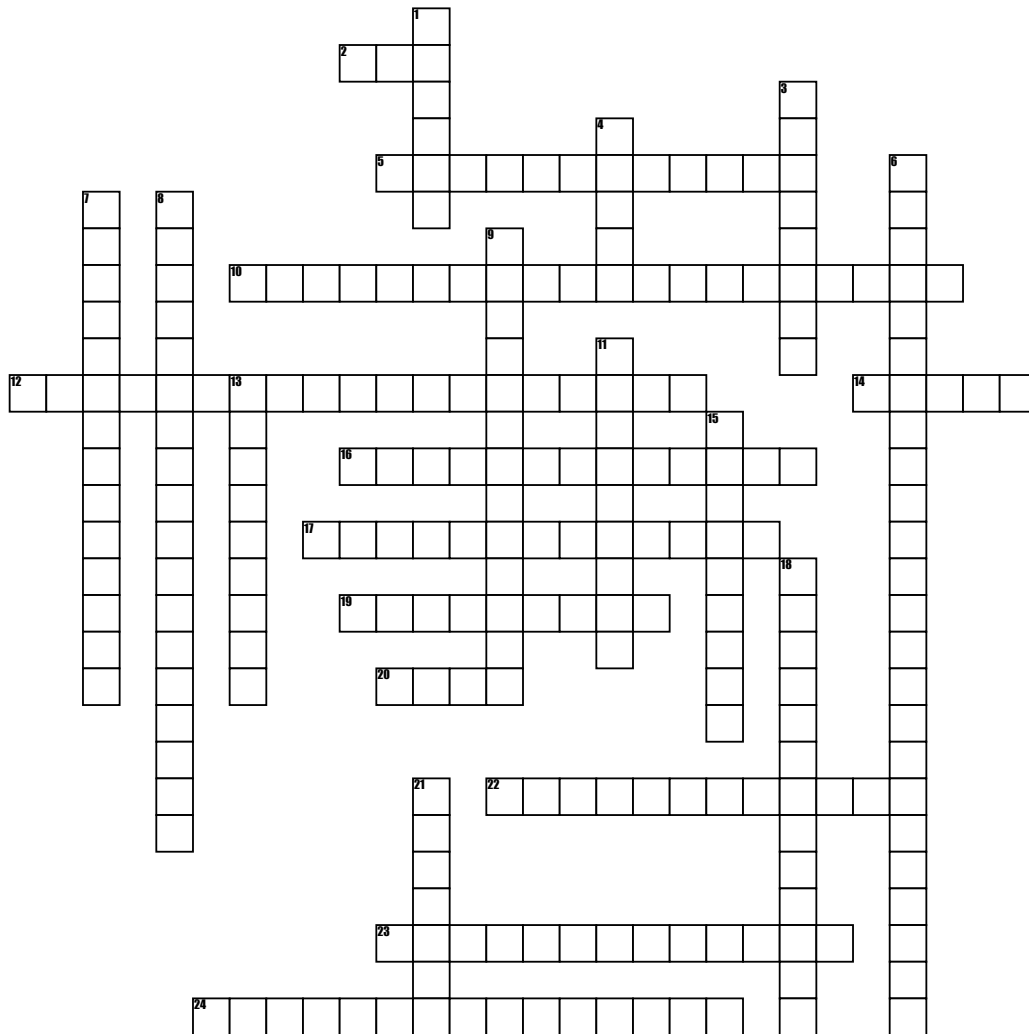


Name: _____

Date: _____

Electricity and Magnetism



Across

2. The SI unit of electrical resistance

5. A apparatus for reducing or increasing the voltage of an alternating current.

10. A Concentrated or lumped resistance that would cause the same power loss as the actual small resistance values distributed throughout a circuit.

12. The difference of electrical potential between two points.

14. Energy that is produced by mechanical, electrical, or other means and used to operate a device.

16. An electric current flowing in one direction only.

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

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

20. The SI unit of electromotive force.

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

23. One of the two ends of a magnet.

24. Components connected so the same voltage is applied to each one.

Down

1. A unit of electric current equal to a flow of one coulomb per second.

3. A device having a designed resistance to the passage of an electric current.

4. A machine powered by electricity or internal combustion that supplies motive power for a vehicle or for some other device with moving parts.

6. Electromagnetic induction is the production of an electromotive force across a conductor exposed to time varying magnetic fields.

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

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

9. An electric circuit connected so that current passes through each circuit element in turn without branching.

11. a substance which does not readily allow the passage of heat or sound.

13. The production of an electric or magnetic state by the proximity (without contact) of an electrified or magnetized body.

15. A dynamo or similar machine for converting mechanical energy into electricity.

18. what is a region around a charged particle or object within which a force would be exerted on other charged particles or objects.

21. A electromotive force or potential difference expressed in volts.

Word Bank

transformers

motor

electromagnet

ohm

resistor

conductor

insulator

generator

direct current

induction

electromagnetic induction

magnetic domain

voltage

power

alternating current

series circuit

magnetic poles

parallel circuit

magnetic field

ampere

potential difference

volt

Electric Field

equivalent resistance