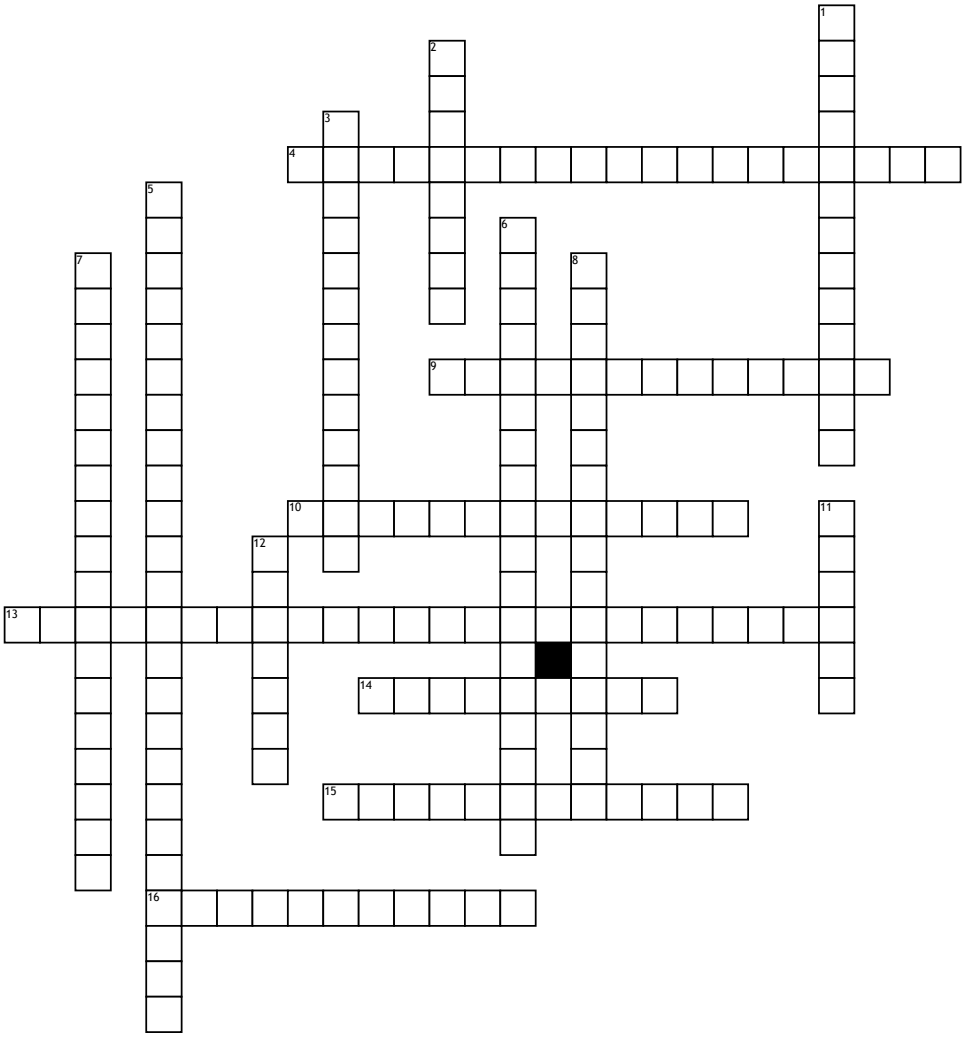
Name: _____ Date: _____

Magnetism and Electromagnetism



Across

4. The angle between geographic north and the north to which a compass needle points
9. Current consisting of charges that flow in only one direction in a circuit
10. A device that transforms electrical energy to mechanical energy
13. The process of generating an electric current from the motion of a conductor through a magnetic field
14. A device that transforms mechanical energy into electrical energy
15. An electric current turns the pointer of what?
16. A device that increases or decreases voltage which often consist of two separate coils of insulated wire wrapped around an iron core

Down

1. A magnet created by wrapping a coil of wire with a current running through it around a core of material that is easily magnetised
2. A coil of wire with a current
3. Lines spread out from one pole, curve around the magnet, and return to the other pole
5. The process of generating an electric current from the motion of a conductor through a magnetic field
6. Current consisting of charges that move back and forth in a circuit
7. Lines that map out the magnetic field around a magnet
8. The relationship between electricity and magnetism
11. Attract iton and materials that contain iron; may attract or appel one another
12. A device with a magnetized needle that can spin freely

Word Bank

Magnetic declination	Alternating current	Electromagnetic induction	Galvanometer
Generator	Electromagnet	Compass	Electric motor
Solenoid	Magnetic field lines	Magnet	Transformer
magnetic field	Direct current	Electromagnetism	Electromagnetic induction