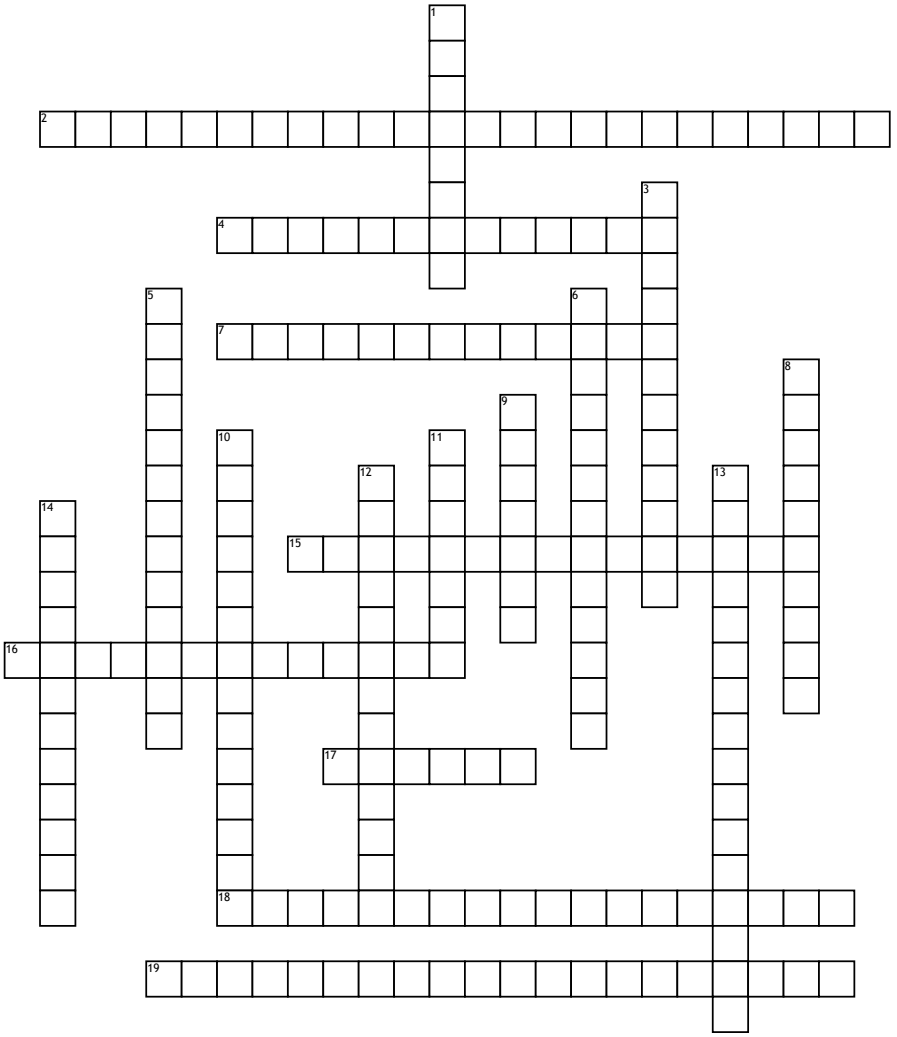
Name: _____ Date: _____

Electromagnetism Choiceboard



Across

2. Uses a magnetic field to create an electric current in an wire

4. Changes electrical energy into mechanical energy; Run on direct currents

7. Two magnets can push together or apart because of their ends

15. The amount of charges that pass through a location in a wire every second

16. When a magnet exerts a push or pull force from two magnets being brought together

17. Any material that attracts iron or objects made of iron

18. The opposite of electric motors; mechanical to electrical energy

19. Discovered that there is connection between electricity and magnetism

Down

1. A coil of wire that carries an electric current and produces a magnetic field

3. Uses induction to increase or decrease the voltage of an alternating current

5. Area surrounding a magnet where magnetic forces can be detected

6. The area surrounding a charge where an electrical force is found

8. The opposition to the flow of electric charges

9. This determine if the object is magnetic or not; groups of atoms that form tiny areas

10. A property that leads to electromagnetic interactions between positive, negative, and neutral charges

11. The amount of work to move an electric charge from two points

12. Iron core wrapped with an electrical wire; The strength of it depends on the strength of the electric current

13. When electric currents and magnetic fields interact with one another

14. Contains an electromagnet between the poles of a permanent magnet

Word Bank

Magnet	Electric generators	Electric charge	Electric current
Electric motor	Electromagnet	Magnetic poles	Solenoid
Voltage	Electromagnetic induction	Domains	Magnetic field
Electromagnetism	Electric field	Galvanometer	Transformers
Resistance	Hans Christian Oersted	Magnetic force	