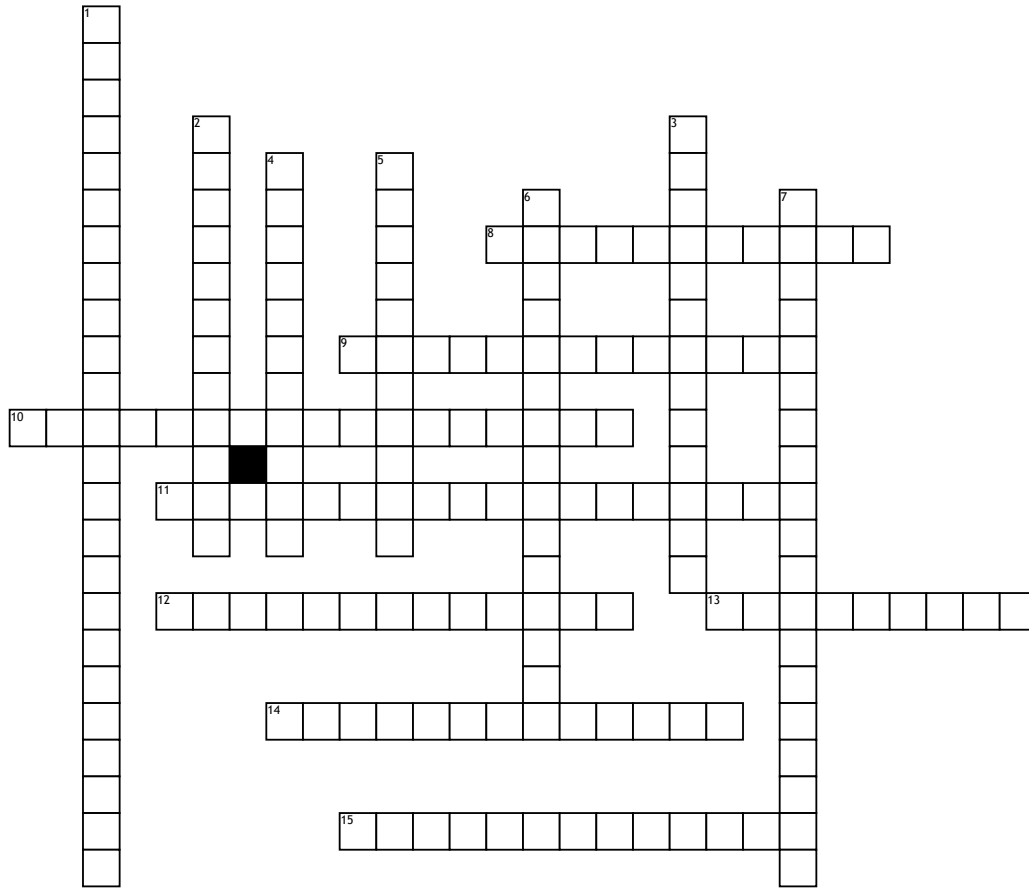


Name: _____

Date: _____

science



Across

8. a device that uses an electromagnet to measure current
 9. the area around a magnet which exerts the magnetic force
 10. transformer that increases voltage
 11. current which periodically reverses direction. produced by a generator
 12. a device that uses an electromagnetic to turn an axle.

13. a device that converts mechanical energy into electrical energy. (works opposite a motor)
 14. a temporary magnet produced when a ferromagnet is surrounded by a current carrying wire
 15. the earth's magnetic field. this is what attract the magnets in a compass.

Down

1. process of generating a current by passing a magnet or magnetic field around an electrically conductive material

2. the end of a magnet where the magnetic field is the strongest
 3. the force exerted by a magnet
 4. a device that increases and decreases the voltage, thus current is changed
 5. states that a voltage is induced in a conductor by a changing magnetic field
 6. demonstrates the relation between electrically charged particles and magnetic fields
 7. transformer that decreases voltage

Word Bank

electromagnetic induction
 step down transformer
 generator
 step up transformer
 magnetic field

transformer
 electromagnetism
 magnetic pole
 electric motor
 magnetic force

alternating current
 magnetosphere
 electromagnet
 galvanometer
 Faraday's law