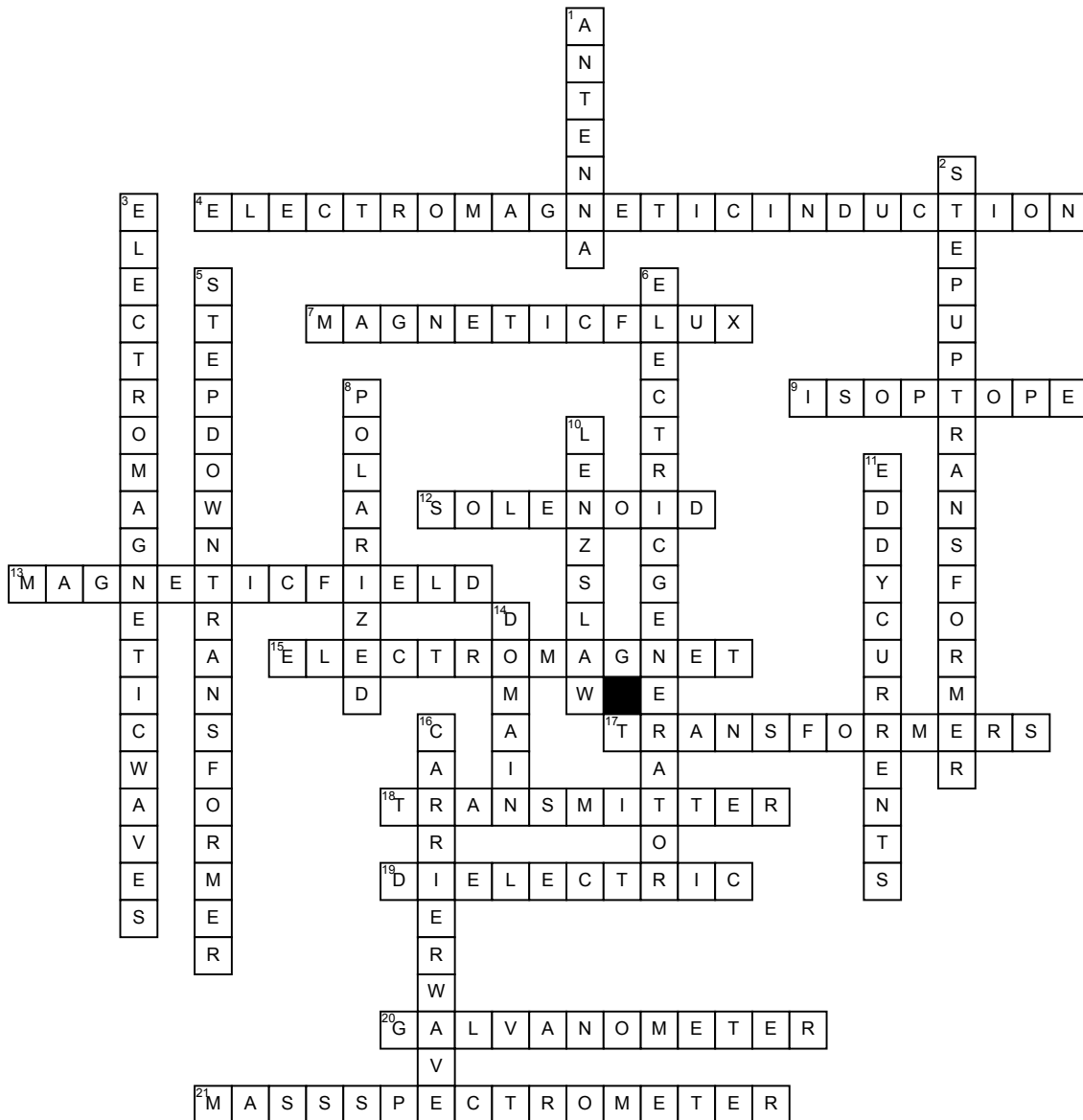


Name: _____ Date: _____ Period: _____

Electromagnetism Crossword Puzzle



Across

4. the process of generating current through a wire in a circuit in a changing magnetic field
 7. number of magnetic passing through a surface perpendicular to the lines
 9. each form of the same atom that has the same chemical properties but a different mass
 12. wire connected to a circuit and coiled into many spiral loops
 13. exists in a space where magnets would experience a force
 15. a magnet whose magnetic field is produced by electric current
 17. device that increases or decrease potential differences with relatively little waste of energy

18. device that converts voice, music, pictures, or data to electronic signals, amplifies signals, and then sends the signal to an antenna
 19. a poor conductor of electric current whose electric charges partially align with an electric field
 20. a device used to measure very small currents
 21. an instrument that measures the charge-to-mass ratio of positive ions within a material

Down

1. create the electromagnetic waves that propagate through the air
 2. secondary potential difference is larger than primary potential difference

3. oscillating electric and magnetic fields that propagate through space and matter
 5. secondary potential difference is smaller than primary potential difference
 6. converts mechanical energy to electrical energy
 8. two opposite end, called poles
 10. magnetic field produced by the induced current is in the direction that is opposite the original field
 11. generated in any piece of metal moving through a magnetic field; the magnetic they produce opposes the motion that caused the currents
 14. a group of neighboring atoms whose poles are aligned
 16. a specific wave length in the radio part of the electromagnetic spectrum