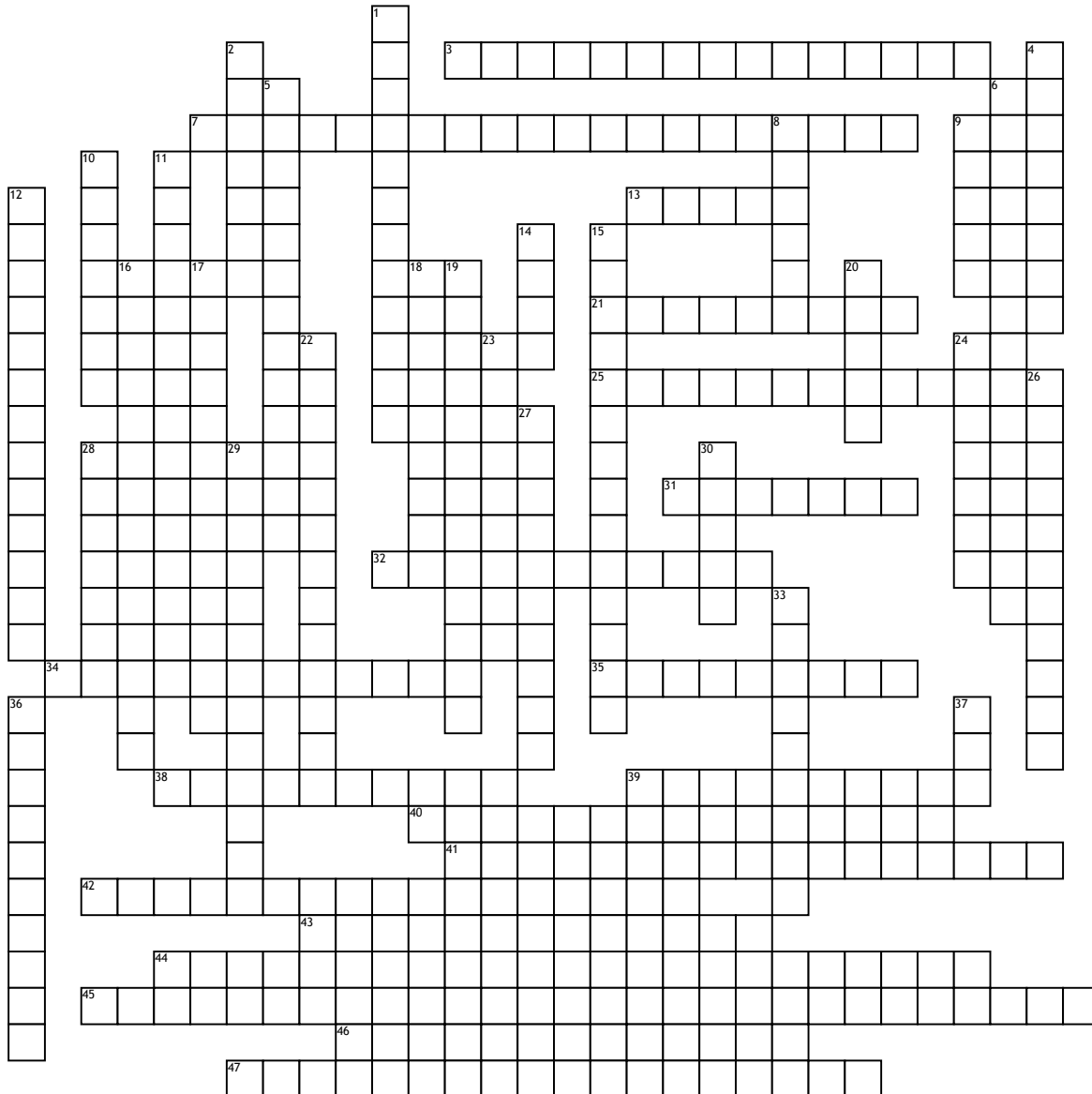


Name: _____

Date: _____

Vocabulary chapters 22-24



Across

3. Flow of electric charge
 7. Waves that can travel through matter or empty space
 13. Device that transforms electrical energy into kinetic energy
 21. Device that uses a magnetic field to turn kinetic energy into electrical energy
 25. Surrounds every electric charge
 31. A device which uses a magnetic needle that can turn freely to determine direction
 32. Device used to increase or decrease the voltage of an alternating current
 34. Imbalance of an electric charge on an object
 35. Amount of energy a wave carries past a certain area each
 38. A recognition sense, or understanding of something
 39. Change in direction of a wave when it changes speed
 40. Electromagnetic waves with wavelengths between about 400 billionths and 10 billionths of a meter
 41. Mechanical wave that causes particles in matter to move back and forth along the direction the wave travels
 42. Rapid movement of excess charge
 43. Surrounds a magnet and exerts a magnetic force
 44. Complete range of electromagnetic waves frequencies and wavelengths
 45. Energy stored in an object due to its position on earth

46. Rate at which electrical energy is converted into other forms of energy

47. Electric current that changes its direction repeatedly

Down

1. Electromagnetic waves with wavelengths between 1000th of a meter and 700 billionths of a meter
 2. A measure of the amount of electrical potential energy an electron flowing in a circuit can gain
 4. A range of values or properties
 5. Repeated echos of soundwaves
 6. States that the angle of the incoming wave makes with the normal to the reflection surface equals the angle the reflective wave makes w the surface
 8. Light display
 9. Human perception of the frequency of sound
 10. States that the current inner circuit equals the voltage divided by the resistance in the circuit
 11. Circuit that has more than one path for electric current
 12. Attractive or repulsive force exerted by all charged objects upon each other
 14. Disturbance that moves through matter and space and carries energy
 15. Group of atoms whose fields point in the same direction
 16. Mechanical wave that causes particles in matter to move at right angles to the direction the wave travels

17. Circuit that only has one path for electric current
 18. Material in which electrons can move easily
 19. Magnet created by wrapping a current carrying wire around an iron core
 20. A push or a pull
 22. Region of space affected by Earth's magnetic field.
 23. Number of wavelengths that pass a given point in one second
 24. Mass divided by volume
 26. Bending of waves around an object
 27. Unit is the OHM
 28. Closed conducting loop in which electric current can flow continually
 29. Electric current that flows only in one direction
 30. Rate at which work is done
 33. Material in which electrons cannot move easily
 36. Distance between one point on a wave and the nearest point moving with the same speed and direction
 37. Atom that is positively or negatively charged