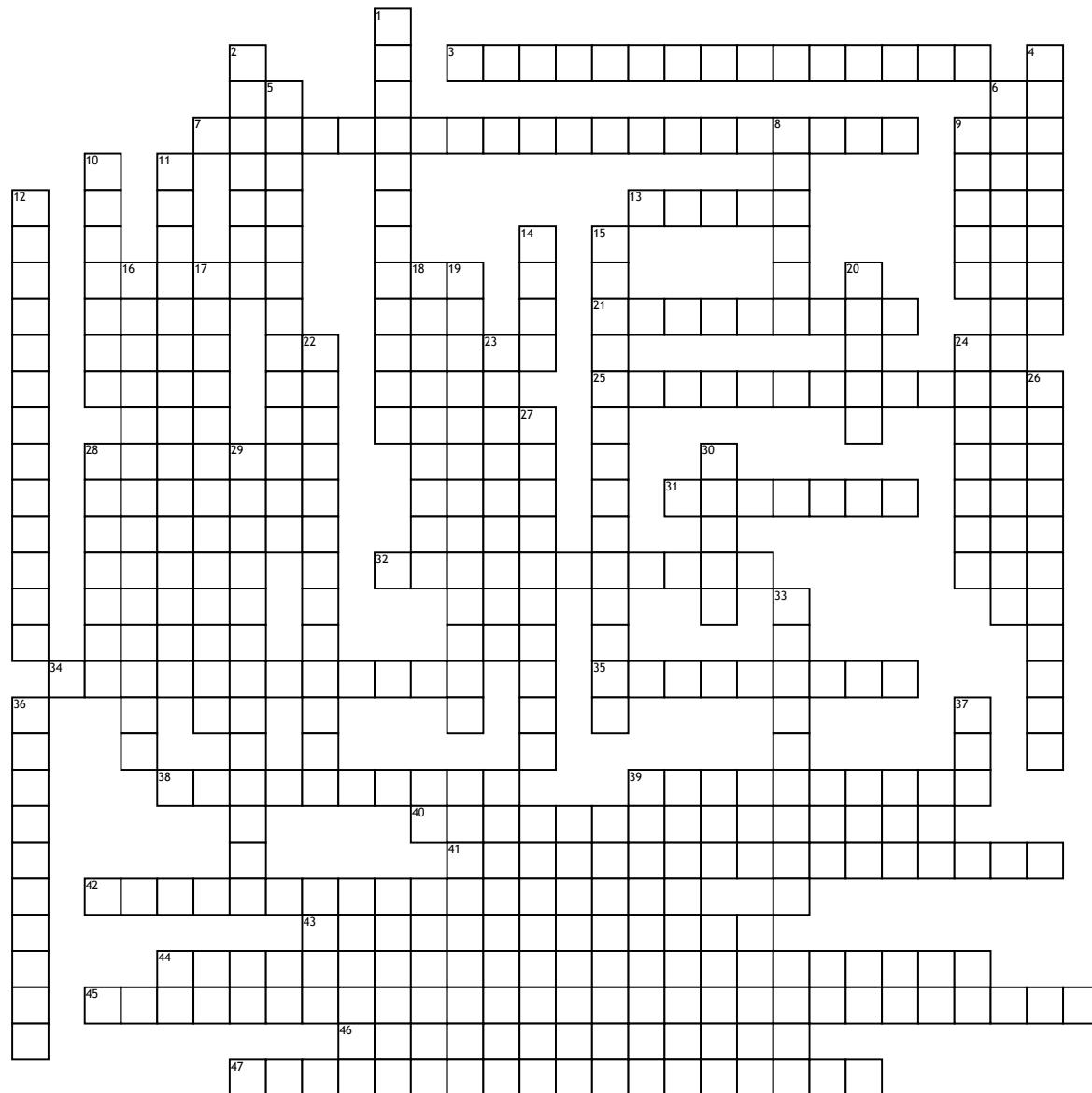


Name: _____

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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 billions 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 echoes 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