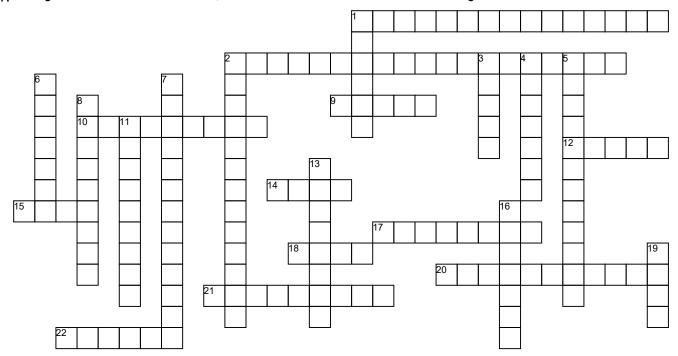
Physics Terms Review Crossword Puzzle 3

1 Using the Across and Down clues, write the correct answer in the numbered grid below.



ACROSS

- 1. The lowest possible energy that a quantum mechanical system may have.
- 2. A wave of electric and magnetic fields that propagates through space.
- 9. Vibrations that travel through the air or another medium and can be heard.
- The branch of physics dealing with motion and forces.
- 12. A device that emits light through a process of optical amplification.
- 14. The product of force and displacement.
- 15. The transfer of thermal energy.
- 17. The band of colors produced when sunlight is passed through a prism.
- 18. The basic unit of a chemical element.
- 20. A device that transfers electrical energy between two or more circuits.
- 21. One of the four fundamental forces of nature, responsible for radioactive decay.
- 22. The process of combining two nuclei to form a heavier nucleus.

DOWN

- A particle that mediates the weak nuclear force.
- 2. A type of magnet in which the magnetic field is produced by an electric current.
- 3. The unit of magnetic flux density.
- 4. A closed loop that allows current to flow.
- 5. The rate of change of velocity per unit of time.
- 6. Atoms of the same element with different numbers of neutrons.
- 7. A reaction in which the products themselves spread the reaction.
- 8. The maximum extent of a vibration or displacement.
- A material that allows the flow of electrical current.
- 13. The resistance to motion of one object moving relative to another.
- 16. The minimum amount of any physical entity involved in an interaction.
- 19. A form of electromagnetic radiation.

isotope laser work

spectrum electromagnet fusion

mechanics conductor amplitude

tesla x-ray transformer

z boson electromagnetic wave chain reaction

acceleration quantum heat

circuit zero-point energy sound

weak force friction atom