Vocabulary

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Study the vocabulary words and definitions below.

chain reaction	a self-sustaining nuclear reaction; it continues without the addition of outside energies
control rod	a barrier that slows a nuclear reaction by absorbing excess radiation
fission	splitting the nucleus of an atom into two lighter parts
fission reactor	a type of nuclear reactor that splits the nuclei of atoms
fusion	a nuclear reaction in which two or more nuclei are pushed together to form one large nucleus
fusion reactor	a type of nuclear reactor that would combine atoms
isotope	an atom or group of atoms with the same atomic number but different atomic mass than other atoms of a specific element; this difference in mass is based on a difference in the number of neutrons within the nucleus of the atom

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nuclear energy	the energy that holds the nuclei of atoms together; it is released in nuclear reactions and may be used to produce heat, electricity, or other forms of energy
nuclear reaction	a reaction that occurs when an atom is split; large amounts of energy are released
nuclear reactor	a machine used to control or create a nuclear chain reaction
nucleus	the center of the atom; plural: nuclei
radiation	the movement of energy as a wave
radioactive	describing those elements or isotopes that spontaneously decompose and give off radiation
radioactive waste	the waste produced by a nuclear reactor; though unusable it still releases radiation
radioactivity	forms of energy given off by nuclear material
theory of relativity	the theory that there is a fundamental relationship between matter and energy; $E=mc^2$ (E stands for energy, m stands for mass, and c stands for the speed of light.)