

Name: _____

Date: _____

Subatomic Physics

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| 1. an atom that has the same number of protons as other atoms of the same element do but that has a different number of neutrons | A. Beta Decay |
| 2. the interaction that binds nucleons together in a nucleus | B. Nuclear reactor |
| 3. the energy released when unbound nucleons come together to form a stable | C. Leptons |
| 4. the time needed for half of the original nuclei of a sample of a radioactive substance to undergo radioactive decay | D. Gamma rays |
| 5. associated with its mass, a particle has a certain amount of energy called | E. Coulomb repulsion |
| 6. must be overcome by an attraction force to prevent the nucleus from breaking apart | F. Nuclear reaction |
| 7. high-energy photons | G. Rest energy |
| 8. transforms neutrons and protons in the nucleus | H. Isotope |
| 9. any process that involves a change in the nucleus of an atom | I. Binding energy |
| 10. system designed to maintain a controlled, self-sustained chain reaction. | J. Strong Force |
| 11. have no internal structure and do not seem to break down into smaller units | K. Half-life |
| 12. all are composed of two or three fundamental particles, which are called quarks | L. Hadrons |