

Vocabulary Review

Match the correct vocabulary term to each numbered statement. Write the letter of the correct term on the line.

Column A**Column B**

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|-----------|--|--------------------------|
| _____ 1. | time required for one half of the nuclei of a radioisotope sample to decay to products | a. radioisotopes |
| _____ 2. | elements in the periodic table with atomic numbers above 92 | b. half-life |
| _____ 3. | conversion of an atom of one element to an atom of another element | c. Geiger counter |
| _____ 4. | isotopes that have unstable nuclei and undergo radioactive decay | d. beta particles |
| _____ 5. | high-energy photon with no mass or electrical charge | e. fission |
| _____ 6. | fast-moving electrons released by a radioactive nucleus | f. radiation |
| _____ 7. | the splitting of an atomic nucleus into smaller fragments | g. transmutation |
| _____ 8. | gas-filled metal tube used to detect the presence of radiation | h. scintillation counter |
| _____ 9. | positively charged particle consisting of two protons and two neutrons | i. gamma ray |
| _____ 10. | penetrating rays and particles emitted by a radioactive source | j. fusion |
| _____ 11. | device that uses a coated phosphor surface to detect ionizing radiation | k. alpha particles |
| _____ 12. | reaction in which two light nuclei combine to form a nucleus of greater mass | l. transuranium elements |