

Name _____

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8th Grade Science Ch. 4 Practice Test

Write the letter of the correct match next to each problem.

- | | |
|---------------------------------|---|
| 1. _____ nucleus | a. neutrally charged particle found in the nucleus of an atom |
| 2. _____ proton | b. elements that have characteristics of both metals and nonmetals (including semiconductivity) |
| 3. _____ atom | c. group two on the periodic table |
| 4. _____ neutron | d. group 18 on the periodic table (also the least reactive group) |
| 5. _____ isotope | e. the element found in group 1 that is not part of the alkali metals |
| 6. _____ periods | f. when the atomic nuclei of unstable isotopes release fast moving particles and energy |
| 7. _____ groups | g. a molecule made of two atoms |
| 8. _____ plasma | h. a state of matter that consists of a gas-like mixture of free electrons and nuclei of atoms that have been stripped of electrons |
| 9. _____ nuclear fusion | i. the vertical columns on the periodic table |
| 10. _____ alkali metals | j. the smallest particle of an element |
| 11. _____ alkaline earth metals | k. group 17 on the periodic table (name means "salt forming") |
| 12. _____ transition metals | l. the horizontal rows on the periodic table |
| 13. _____ diatomic molecule | m. a radioactive isotope used to trace the steps of a chemical reaction |
| 14. _____ halogens | n. atoms with the same number of protons, but a different number of neutrons |
| 15. _____ noble gases | o. group 1 on the periodic table (also the most reactive group) |

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|-----|---------------|----|---|
| 16. | hydrogen | p. | the spontaneous emission of radiation by an unstable nuclei |
| 17. | metalloids | q. | positively charged center in an atom |
| | radioactive | r. | positively charged particle found in the nucleus |
| 18. | decay | | |
| 19. | radioactivity | s. | a process in which two atomic nuclei combine |
| 20. | tracer | t. | groups 3-12 on the periodic table |

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nucleus | a. neutrally charged particle found in the nucleus of an atom |
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| 17. | b | metalloids | q. | positively charged center in an atom |
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