Nuclear Chemistry Worksheet L

Name_____
Period_____Date_____

Directions: Identify the following as alpha, beta, gamma, or neutron.

1. $^{1}_{0}n$ _____ 2. $^{0}_{-1}e$ _____

3. $^{4}_{2}He$ _____ 4. $^{0}_{0}\gamma$ _____

5. Nuclear decay with no mass and no charge _____

6. An electron _____

7. Least penetrating nuclear decay _____

8. Most damaging nuclear decay to the human body _____

9. Nuclear decay that can be stopped by skin or paper. _____

10. Nuclear decay that can be stopped by aluminum. _____

Complete the following nuclear equations.

11. $^{42}_{19}K \rightarrow {}^{0}_{-1}e +$ _____

12. $^{239}_{94}Pu \rightarrow {}^{4}_{2}He +$ _____

13. $^{9}_{4}Be \rightarrow {}^{9}_{4}Be +$ _____

14. $^{235}_{92}U \rightarrow$ _____ $+ {}^{231}_{90}Th$

15. $^{6}_{3}Li \rightarrow {}^{4}_{2}He +$ _____

16. _____ $\rightarrow {}^{142}_{56}Ba + {}^{91}_{36}Kr + 3\ {}^{1}_{0}n$

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