**Nuclear Reactions – What do you know?**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_

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| 1. What is the nucleus of an atom composed of?
2. What is a strong force?
3. How are the strong forces between a large nucleus and a small nucleus different?
4. Why does nuclear decay happen?
5. What two things are released during nuclear decay?
6. What is an isotope?
7. Give an example of isotopes of Carbon.
8. What does it mean when a nucleus is unstable or *radioactive?*
9. In what elements did Marie Curie discover radioactivity?
10. What is an alpha particle?
11. What is a beta particle?
12. What is a gamma ray?
13. How are alpha and beta particles different?
14. How are gamma rays different from alpha and beta particles?
15. Which is the most dangerous radiation AND why?
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