**Nuclear Equations**

Radioactive atoms emit radiation because their nuclei are unstable. Unstable atoms will become stable by losing energy or mass. When an atom emits energy or mass, it is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

There are three types of radioactive decay:

**Alpha**

**Beta**

**Gamma**

The two rules of Nuclear Equations

1. The sum of the mass numbers does not change
2. The sum of the charges in the nucleus does not change

$$+ $$

$$+ \\_\\_\\_\\_$$

$$\\_\\_\\_\\_ \rightarrow + $$

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