

## Nuclear Decay

### Types of Radiation

1. Complete the table below to compare the properties of alpha, beta, and gamma radiation.

| Name         | Alpha                 | Beta         | Gamma             |
|--------------|-----------------------|--------------|-------------------|
| Greek letter | $\alpha$              | $\beta$ -    | $\gamma$          |
| Symbol       | ${}^4_2\text{He}$     | ${}^0_{-1}e$ | $\gamma$          |
| Composition  | 2 protons, 2 neutrons | an electron  | radiation (light) |
| Charge       | 0                     | -1           | 0                 |
| Stopped by   | paper, skin, clothing | aluminum     | lead              |

### Nuclear Decay Reactions

In problems 2 – 5, fill in the missing particle for each nuclear decay reaction. Then, match each equation to the appropriate type of nuclear decay.

- \_\_\_\_\_ 2.  ${}^{14}_6\text{C} \rightarrow {}^{14}_7\text{N} + \text{_____}$       **beta**      A. alpha emission
- \_\_\_\_\_ 4.  ${}^{218}_{84}\text{Po} \rightarrow {}^{214}_{82}\text{Pb} + \text{_____}$        **${}^4_2\text{He}$**       B. beta emission
- \_\_\_\_\_ 5.  $\text{_____} + {}^0_{-1}e \rightarrow {}^{147}_{60}\text{Nd}$        **${}^{147}_{61}\text{Pm}$**       C. electron capture

In problems 6 and 7, write a balanced equation for each nuclear decay reaction.

6. Decay of radium-223 by alpha ( $\alpha$ ) emission.



7. Decay of iodine-126 by electron ( $\beta$ ) emission.



8. How are the atomic number and mass number of a nuclide affected by Beta Decay?

The mass number does not change but the atomic number increases by 1.

9. How are the atomic number and mass number of a nuclide affected by the emission of gamma radiation?

The atomic number and mass number do not change.

10. Which has a slightly greater mass in a nuclear reaction, the reactants or the products? Why?

It depends on the type of reaction. A fusion reaction will have greater mass in the products because it is combining two nuclei. A fission reaction will not change mass.

# Radioactive Decay 2worksheet Answer Key

**Puja Mehta**

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