

# Radioisotope Safety and Methodology Course Activity Worksheet

Name: \_\_\_\_\_

Date: \_\_\_\_\_

ID #: \_\_\_\_\_

1. How many neutrons are in the nucleus of the following radioisotopes:

Co-60 \_\_\_\_\_

P-32 \_\_\_\_\_

I-125 \_\_\_\_\_

Am-241 \_\_\_\_\_

Kr-85 \_\_\_\_\_

Sr-90 \_\_\_\_\_

Sm-152 \_\_\_\_\_

2. List the daughter

3, To answer the following question insert in the blank spaces below either "increase, decreases or no change" also indicate how much change.

Decay Type	Change in atomic mass of (A)	Change in atomic number of atom (Z)
Alpha		
Beta		
Gama		

4. Convert  ${}_{6}^{12}\text{C}$  to  ${}_{12}^{24}\text{Mg}$

4.

Beber  ${}_{8}^{18}\text{O}$  to  ${}_{13}^{27}\text{Al}$

