

## Writing Nuclear Reactions!

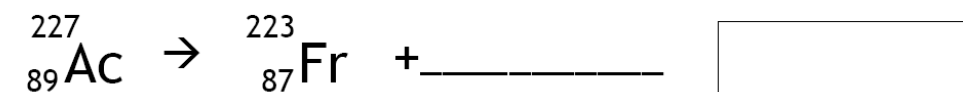
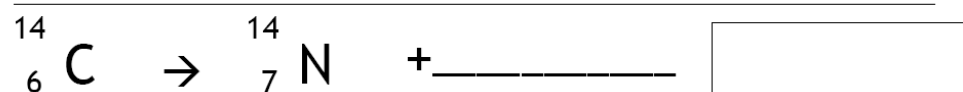
- 1) Describe what happens to a nucleus during radioactive decay.
- 2) Fill in the following chart for the three types of decay:

Characteristics of Alpha, Beta, and Gamma Radiation			
Property	Alpha	Beta	Gamma
What is it?			
Symbol			
Charge			
What stops it?			

- 3) Which type of radiation is a packet of energy (photon) and not a particle?
- 4) What type of radiation is a helium nucleus?
- 5) Which type of radiation is a super fast moving electron?
- 6) Which type of decay results in an increase in the atomic number for the decay product?
- 7) Which type of decay results in a decrease in the atomic number for the decay product?
- 8) Which type of decay results in no change for the decay product?

Complete the following equations and fill in the blanks.

Type of Decay



Complete these nuclear reactions:

