

The Nucleus – Radioactivity

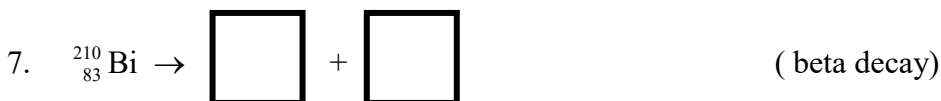
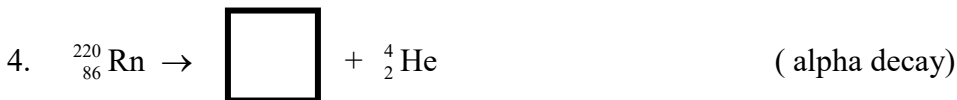
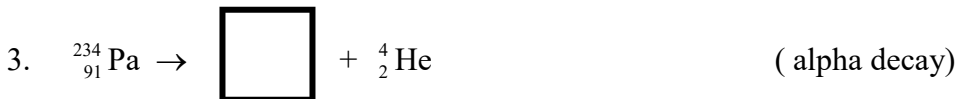
NUCLEAR EQUATIONS

Write “isotopic symbols” for:

Example: ${}_{92}^{238}\text{U}$

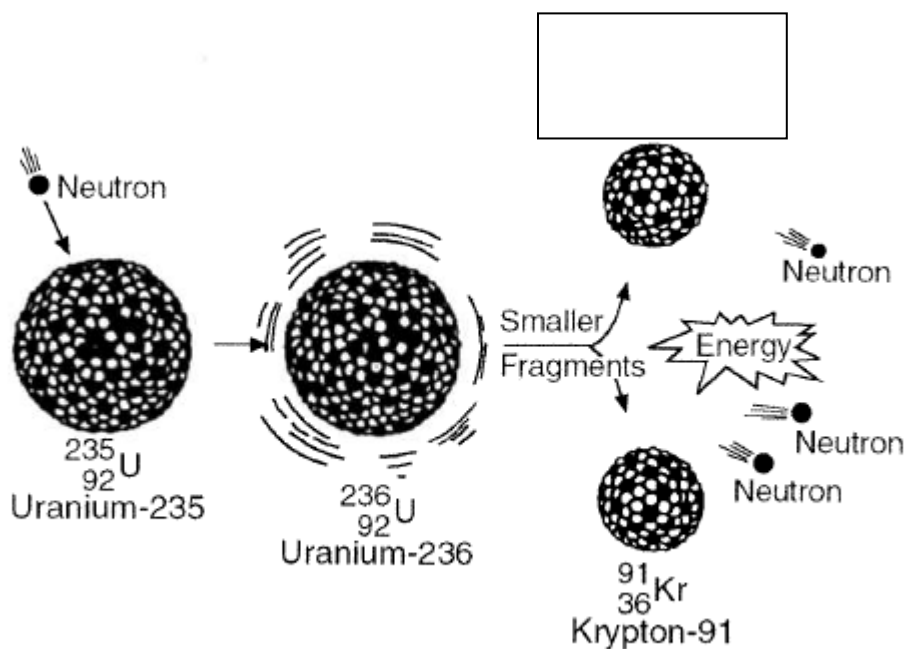
alpha, α	beta, β^-	positron, β^+	neutron, n^0	gamma, γ

Complete these nuclear reactions:



Name _____

Period ____ Date ____/____/____



1. What initiates the reaction shown above? _____

2. What type of reaction is this?

- a. Fusion b. Fission c. Alpha decay d. Beta decay

3. Explain your answer. _____

4. Write the complete equation illustrated above.

Include all particles and follow the law of conservation of mass.

Refer to the front side of this paper and your notes for help.

5.

Complete the following fission reactions:

