

SECTION
2

Enrichment

The Decay of U-235

Directions: Fill in the 12 steps in the decay of U-235 in the diagram below. Begin with U-235 and finish with an isotope of lead. The particles emitted in each step are listed below. Use the periodic table to find information about mass numbers, atomic numbers, and chemical symbols. Place the correct symbol in the space corresponding to the correct mass number and atomic number.

Step	Particle emitted	Mass Number	Atomic Number
		235	92
1	Alpha		
2	Beta	231	
3	Alpha		
4	Alpha	227	
5	Beta		
6	Alpha	223	
7	Alpha		
8	Alpha	219	
9	Beta		
10	Alpha	215	
11	Beta		
12	Stable	211	
		207	
		203	

1. What nucleus is the final product?

2. Which steps are linear and which steps are diagonal?
