

Conceptual Chemistry

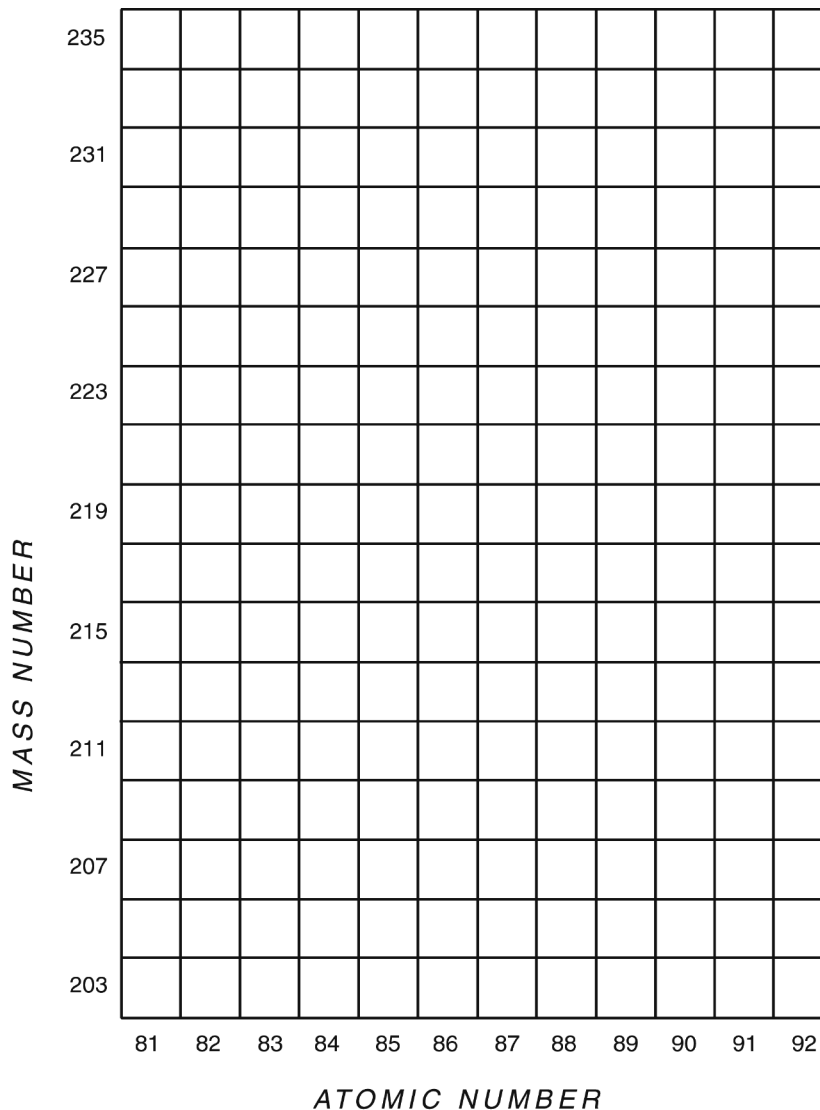
PRACTICE SHEET

The Atomic Nucleus

Natural Transmutation

Fill in the decay scheme below, similar to that shown in your textbook, but beginning with U-235 and ending up with an isotope of lead. Use the table at the left, and identify each element in the series with its chemical symbol.

Step	Particle emitted
1	Alpha
2	Beta
3	Alpha
4	Alpha
5	Beta
6	Alpha
7	Alpha
8	Alpha
9	Beta
10	Alpha
11	Beta
12	Stable



What isotope is the final product? _____