

Fission & Fusion

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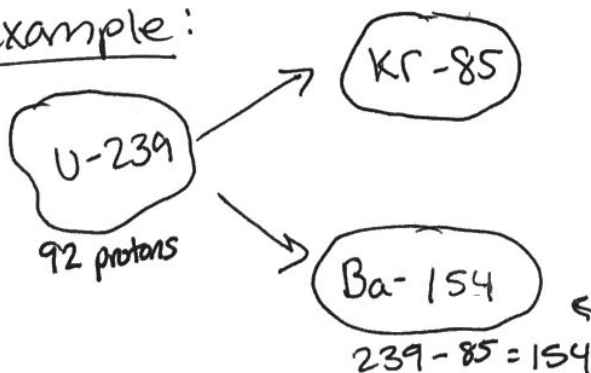
Fusion:

- fuses together
- 2 protons are fused together
- occurs with the smallest atoms
- happens in extreme heat (the sun)
- causes EM waves
- Releases energy - more power than fission
- requires a lot of heat for protons
- Add protons together

Fission

- occurs when atoms split apart
- take a neutron and fire it at large atom (Uranium, plutonium)
- Critical mass - so big, the atom can't hold together anymore. releases tons of nuclear energy.
- generates electricity \blackleftarrow - produces nuclear waste.

Math example:



What is the second element?

U-239 has 92 protons
 \hookrightarrow from periodic table

Kr-85 has 36 protons
 \hookrightarrow from periodic table

$92 - 36 = 56 \rightarrow$ periodic table Ba