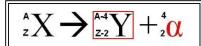


g C

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## **Writing Alpha Nuclear Decay**

Alpha nuclear decay can be written in equation form



Alpha decay removed 2 p+ which reduces atomic number (Z) by 2.

$$^{226}_{88}$$
Ra  $\rightarrow ^{222}_{86}$ Rn  $+ ^{4}_{2}\alpha$   $\cup$  (92)  $\rightarrow$  Th (90)

Ra (88) 
$$\rightarrow$$
 Rn (86)  
U (92)  $\rightarrow$  Th (90)

$$^{238}_{92}U \rightarrow ^{234}_{90}Th + ^{4}_{2}\alpha$$

The smaller atom is more stable due to reducing the z-ratio (p\*:n° ratio)