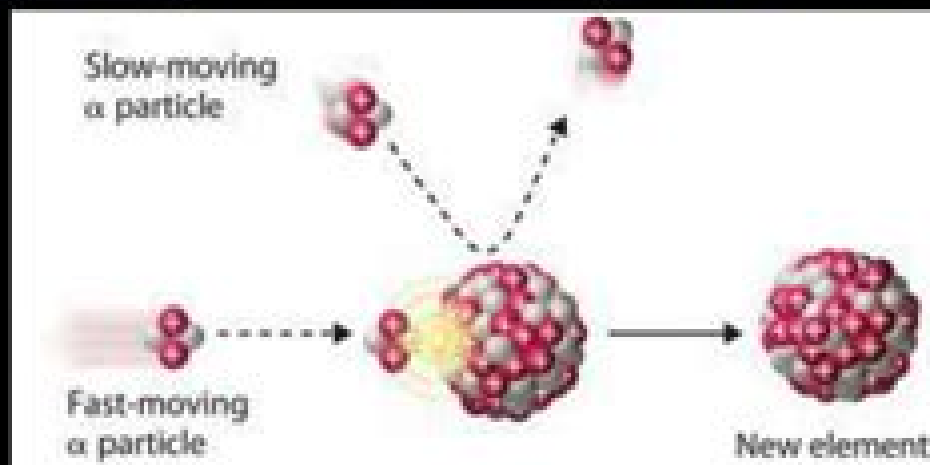


Artificial Transmutation

- The change of one element to another artificially by bombarding it with other particles.



- These equations always have 2 reactants on the left (as opposed to natural decay)

Artificial Transmutation



Natural Transmutation



3 Artificial Transmutation

Effiong Eyo



3 Artificial Transmutation:

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 $550 \text{ J} = \Delta h_{\text{q water}} = 550 \text{ J}$

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web calorimetry worksheet 1 if 0 315 moles of hexane C_6H_{14} is combusted in a bomb calorimeter containing 5 65 liters of water calculate the molar heat of combustion of hexane if the water temperature rises 55 4 $^{\circ}\text{C}$ the specific heat capacity of water is 4 184 J $\text{g}^{-1} \text{ } ^{\circ}\text{C}^{-1}$ $m = 5 650$ grams H_2O 4 184 J $\text{g}^{-1} \text{ } ^{\circ}\text{C}^{-1}$ $\Delta H = 1310$ kJ

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web 6 a 218 g sample of steam at 121 $^{\circ}\text{C}$ is cooled to ice at 14 $^{\circ}\text{C}$ find the change in heat content of the system 7 in going from ice at 34 $^{\circ}\text{C}$ to steam at 138 $^{\circ}\text{C}$ a sample of water absorbs $1 41 \times 10^5$ J find the mass of the sample answers 1 2 68 $\times 10^4$ J 2 6 23 $\times 10^4$ J 3 1 71 $\times 10^4$ J 4 1 11 $\times 10^5$ J 5 2 11 $\times 10^5$ J 6

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