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NUCLEAR REACTION WORKSHEET

[ANSWER KEY] 1.  ${}_{84}^{212}\text{Po} \rightarrow {}_{82}^{208}\text{Pb} + {}_2^4\text{He}$ .  
2.  ${}_{61}^{142}\text{Pm} \rightarrow {}_{60}^{142}\text{Nd} + {}_{-1}^0\text{e}$ .  
3.  ${}_{83}^{253}\text{Es} + {}_2^4\text{He} \rightarrow {}_{85}^{256}\text{Md} + {}_0^1\text{n}$ .

**NUCLEAR REACTION WORKSHEET  
[ANSWER KEY]**

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transmutation, fission, or fusion)  
described. Type of. Nuclear Reaction 1.)  
decod 2.) Alpha 3.)  $^{141}\text{Pa}$ - 4.)

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The following all undergo positron emission. Write the complete nuclear equation.  $\rightarrow$  positron ( $e^+$ ) + In-116  $\rightarrow$  positron ( $e^+$ ) + Ni-61  $\rightarrow$  positron ( $e^+$ ) + P-30  $\rightarrow$  positron ( $e^+$ ) + Rb-85. Complete

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the missing information in the reactions.  
Then, label the reaction one of the  
following: Alpha Decay. Beta Decay.  
Electron Capture. Positron Emission C-6

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"Fission reaction" of uranium-235 in a  
nuclear reactor  $^{235}_{92}\text{U} + ^1_0\text{n} \rightarrow ^{92}_{36}\text{Kr} + ^{141}_{56}\text{Ba} + 3^1_0\text{n}$

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$\Delta m = (\text{mass sum of protons} + \text{neutrons})$

— actual nuclear mass proton neutron

The mass deficit ( $\Delta m$ ) equals the

"nuclear binding energy" = "strong

nuclear force"  $E = \Delta m c^2$   $\Delta m$  in kg (convert

from grams to kg)  $E$  in J (convert to kJ)

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Get answers in either kJ/mol (of nucleus) or kJ/"mole nucleon" o The number of "nucleons" is the sum of protons and neutrons 4.

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Nuclear Chemistry Worksheet Nuclear reactions that involve bombardment of nuclei vary in their products. For example:  ${}_{94}^{238}\text{Be} + {}_{42}^{226}\text{He} \rightarrow {}_{14}^{14}\text{N} + {}_{42}^{226}\text{He} + {}_{1780}^{1780}\text{H} + {}_{21}^{27}\text{Sc} + {}_{4521}\text{Sc} + {}_{42}^{226}\text{K} + {}_{42}^{226}\text{He}$  In nuclear equations, the total number of positive charges (represented by the atomic

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be the same on both sides of the equation. In some cases one of the symbols in the list below will be used to complete the equation. If a new element is formed, you may need to refer to a

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Worksheet Nuclear reactions that involve bombardment of nuclei vary in their products. For example:  ${}_{94}^{243}\text{Be} + {}_{42}^{1780}\text{He} + \text{Ion } {}_{14}^{21}\text{N} + {}_{42}^{27}\text{He}$   ${}_{45}^{21}\text{Sc} + \text{Ion } {}_{42}^{19}\text{K} + {}_{42}^{2}\text{He}$  In nuclear equations, the total number of positive charges (represented by the atomic Ms. Demonte's Chemistry Classes - Home

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Complete the following nuclear reactions: a.  ${}_{83}^{226}\text{Bi} \rightarrow {}_{81}^{222}\text{At} + {}_2^4\text{He}$  b.  ${}_{83}^{213}\text{Bi} \rightarrow {}_{81}^{209}\text{Tl} + {}_2^4\text{He}$  c.  ${}_{83}^{213}\text{Bi} \rightarrow {}_{84}^{213}\text{Po} + {}_{-1}^0\text{e}$  d.  ${}_{83}^{213}\text{Bi} \rightarrow {}_{82}^{213}\text{Pb} + {}_{-1}^0\text{e}$  ; ? +  ${}_2^4\text{He}$  (alpha decay) (alpha decay) (beta+ decay) When isotope bismuth-213 emits an alpha particle: a. Write out the nuclear equation:  ${}_{83}^{213}\text{Bi} \rightarrow {}_{81}^{209}\text{Tl} + {}_2^4\text{He}$  b. Which is the parent element?  ${}_{83}\text{Bi}$  c.

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Which is the daughter element? d.

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In nuclear reactions, the great amounts of energy are provided by nuclear "binding energy" Nuclear Reactions

Worksheet Answer Key NUCLEAR REACTION WORKSHEET [ANSWER KEY]

1.  ${}_{84}^{212}\text{Po}$   ${}_{2}^4\text{He}$  +  ${}_{82}^{208}\text{Pb}$  2.  ${}_{82}^{142}$

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$Pm + 0 e \rightarrow 142 Nd$  61 -1 60 3.  $253 Es + 4 He \rightarrow 256 Md$  99 2 0 101 4.  $218 Po + 4 He \rightarrow 214 Pb$  84 2 82 5.  $9 Be + 4 He \rightarrow 12 C + 1 n$  4 2 6 0 6.  $22 Na + 0 e \rightarrow 22 Ne$  11 -1 10 7.  $238 U + 4 He \rightarrow 234 Th$  92 2 90 8.

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