

Nuclear Reactions Worksheet Answer Key

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Nuclear Reactions Worksheet Answer Key

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

NUCLEAR REACTION WORKSHEET [ANSWER KEY]

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Determine the type of nuclear reaction (a emission, emission, γ emission, positron emission, artificial transmutation, fission, or fusion) described. Type of. Nuclear Reaction 1.) decod 2.) Alpha 3.) $^{141}\text{Pa} \rightarrow ^4\text{He} + ^{137}\text{La}$ 4.) $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 6.) $^{13}\text{C} \rightarrow ^{12}\text{C} + ^1\text{H}$ 7.) Alpha decag 8.) $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 10.) 11.) 12.) $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 13.) $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 14.) $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 15.) $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 42 $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 42 $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 11 $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 31 $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 42 $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 2713 $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 94 $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 11 $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 3719 $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ 0+1 $^{238}\text{U} \rightarrow ^4\text{He} + ^{234}\text{Th}$ e + r 035 ...

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The following all undergo positron emission. Write the complete nuclear equation. \rightarrow positron (e^+) + $^{116}\text{In} \rightarrow$ positron (e^+) + $^{61}\text{Ni} \rightarrow$ positron (e^+) + $^{30}\text{P} \rightarrow$ positron (e^+) + ^{85}Rb . Complete the missing information in the reactions. Then, label the reaction one of the following: Alpha Decay. Beta Decay. Electron Capture. Positron Emission C-6

Nuclear decay worksheet - CTE Online

"Fission reaction" of uranium-235 in a nuclear reactor $^{235}\text{U} + ^1\text{n} \rightarrow ^{92}\text{Kr} + ^{141}\text{Ba} + 3^1\text{n} + \text{Energy}$ 36 10. "Fusion reaction" of hydrogen isotopes—the principal source of energy production in the Sun $^2\text{H} + ^3\text{H} \rightarrow ^4\text{He} + ^1\text{n} + \text{Energy}$ 11. Alpha decay of the most abundant source of natural background radiation Nuclear Chemistry 218 PO + He Flinn ChemTopicT" Labs —

NUCLEAR DECAY Predict the products of the following ...

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$\Delta m = (\text{mass sum of protons} + \text{neutrons}) - \text{actual nuclear mass}$ proton neutron The mass deficit (Δm) equals the "nuclear binding energy" = "strong nuclear force" $E = \Delta m c^2$ Δm in kg (convert from grams to kg) E in J (convert to kJ) 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.

Minnesota State University Moorhead

Nuclear Reactions. Explore examples of nuclear fusion and fission reactions. Follow the steps of the proton-proton chain, CNO cycle, and fission of uranium-235. Write balanced nuclear equations for each step, and compare the energy produced in each process. Use for 5 minutes a day.

Nuclear Reactions Gizmo : Lesson Info : ExploreLearning

Nuclear Chemistry Worksheet Nuclear reactions that involve bombardment of nuclei vary in their products. For example: $^{94}\text{Be} + ^4\text{He} \rightarrow ^{14}\text{N} + ^4\text{He}$ 1780 + 1 $^{21}\text{H} + ^{27}\text{Sc} \rightarrow ^{42}\text{Sc} + ^1\text{H}$ 4219 $^{21}\text{H} + ^{27}\text{Sc} \rightarrow ^{42}\text{Sc} + ^1\text{H}$ In nuclear equations, the total number of positive charges (represented by the atomic

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Nuclear Reaction Gizmo Worksheets - Teacher Worksheets

Balancing Nuclear Equations When balancing nuclear equations, the sums of the atomic and mass numbers must 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

Balancing Nuclear Equations

NUCLEAR REACTION WORKSHEET [ANSWER KEY] Nuclear Chemistry Worksheet Nuclear reactions that involve bombardment of nuclei vary in their

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products. For example: ${}^{94}\text{Be} + {}^{42}\text{He} + \text{Ion } {}^{14}\text{N} + {}^{42}\text{He} \rightarrow {}^{1780}\text{Sc} + \text{Ion } {}^{4219}\text{K} + {}^{42}\text{He}$ In nuclear equations, the total number of positive charges (represented by the atomic Ms. Demonte's Chemistry Classes - Home

Nuclear Reactions Worksheet Answer Key

Complete the following nuclear reactions: a. ${}^{226}\text{Po} \rightarrow {}^z\text{Pb} + {}^4\text{He}$ b. ${}^c\text{Bi} \rightarrow {}^d\text{Po} + {}^4\text{He}$ (alpha decay) (alpha decay) (beta decay) When isotope bismuth-213 emits an alpha particle: a. Write out the nuclear equation: ${}^{213}\text{Bi} \rightarrow {}^z\text{Po} + {}^4\text{He}$ b. Which is the parent element? c. 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. ${}^{212}\text{Po} \rightarrow {}^{208}\text{Pb} + {}^4\text{He}$ 2. ${}^{142}\text{Pm} \rightarrow {}^{142}\text{Nd} + {}^0\text{e}$ 3. ${}^{253}\text{Es} + {}^4\text{He} \rightarrow {}^1\text{n} + {}^{256}\text{Md}$ 4. ${}^{218}\text{Po} \rightarrow {}^{214}\text{Pb} + {}^4\text{He}$ 5. ${}^9\text{Be} + {}^4\text{He} \rightarrow {}^{12}\text{C} + {}^1\text{n}$ 6. ${}^{22}\text{Na} \rightarrow {}^{22}\text{Ne} + {}^0\text{e}$ 7. ${}^{238}\text{U} \rightarrow {}^{234}\text{Th} + {}^4\text{He}$ 8. apps-dso.sws.iastate.edu Explore examples of nuclear fusion and fission reactions.

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