

Nuclear Reactions Worksheet Answer Key

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Nuclear Reactions Worksheet Answer Key

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

NUCLEAR REACTION WORKSHEET [ANSWER KEY]

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$A_m = (\text{mass sum of protons} + \text{neutrons})$ — actual nuclear mass
proton neutron The mass deficit (A_m) equals the "nuclear binding energy" = "strong nuclear force" $E = A_m c^2$ A_m 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.

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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:
 ${}_{94}^{238}\text{Be} + {}_{2}^{4}\text{He} + {}_{14}^{14}\text{N} + {}_{2}^{4}\text{He} \rightarrow {}_{1780}^{1780} + {}_{1}^{1}\text{H} + {}_{27}^{27}\text{Sc} + {}_{42}^{42}\text{K} + {}_{2}^{4}\text{He}$
In nuclear equations, the total number of positive charges (represented by the atomic

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Showing top 8 worksheets in the category - Nuclear Reaction Gizmo. Some of the worksheets displayed are Higher nuclear reactions answers, Nuclear reactions work answer key, Identifying nuclear reactions, Nuclear decay work answers, Nuclear decay work answers, Nuclear reaction work answer key, Home, Balancing chemical equations gizmo work answers.

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 products. For example:
 ${}_{94}^{238}\text{Be} + {}_{2}^{4}\text{He} + {}_{14}^{14}\text{N} + {}_{2}^{4}\text{He} \rightarrow {}_{1780}^{1780} + {}_{1}^{1}\text{H} + {}_{27}^{27}\text{Sc} + {}_{42}^{42}\text{K} + {}_{2}^{4}\text{He}$
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. ${}_{82}^{226}\text{Po} \rightarrow {}_{82}^{226}\text{Po} + {}_2^4\text{He}$ b. ${}_{82}^{226}\text{Po} \rightarrow {}_{80}^{218}\text{Pb} + {}_2^4\text{He}$ c. ${}_{82}^{226}\text{Po} \rightarrow {}_{81}^{218}\text{Bi} + {}_1^2\text{He}$ d. ${}_{82}^{226}\text{Po} \rightarrow {}_{82}^{226}\text{Po} + {}_0^0\gamma$;
? + ${}_{2}^4\text{He}$ (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. Which is the daughter element? ${}_{81}\text{Tl}$.

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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. ${}_{82}^{212}\text{Po} \rightarrow {}_{82}^{212}\text{Po} + {}_2^4\text{He}$ 2. ${}_{82}^{212}\text{Po} \rightarrow {}_{80}^{208}\text{Pb} + {}_2^4\text{He}$ 3. ${}_{82}^{212}\text{Po} \rightarrow {}_{81}^{208}\text{Bi} + {}_1^2\text{He}$ 4. ${}_{82}^{212}\text{Po} \rightarrow {}_{82}^{212}\text{Po} + {}_0^0\gamma$ 5. ${}_{82}^{212}\text{Po} \rightarrow {}_{82}^{212}\text{Po} + {}_0^0\gamma$ 6. ${}_{82}^{212}\text{Po} \rightarrow {}_{82}^{212}\text{Po} + {}_0^0\gamma$ 7. ${}_{82}^{212}\text{Po} \rightarrow {}_{82}^{212}\text{Po} + {}_0^0\gamma$ 8. apps-dso.sws.iastate.edu Explore examples of nuclear fusion and fission reactions.

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