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Answer Key
Student
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Alpha Decay
Answer Key

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After more than 30 years \$domain continues as a popular, proven, low-cost, effective marketing and exhibit service for publishers large and small. \$domain book service remains focused on its original stated objective - to take the experience of

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many years and
hundreds of
exhibits and put it
to work for
publishers.

Ninth grade
Lesson Day 1:
Radioactive Decay
Using A Gizmo.
Student directions
Beta Decay.pdf -
105 kB; Lesson ...

Read Book

Student Directions

Alpha Decay Answer Key

Differentiate between Alpha and Beta decay;
Compare the meaning of “ Half-life ” for Alpha and Beta decay. ...

Answers Included

No: Language

English: Keywords
alpha, beta, decay,
inquiry, phet,
random:

Simulation(s) ...

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Alpha Decay
Answer Key

apps-

dso.sws.iastate.edu

Appropriate for grades 8-12, it provides guided directions to help students understand the random nature of decay of a radioactive substance (Polonium-211). As they watch the

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Alpha Decay

Answer Key

alpha particle eject
from the nucleus,
they can see the
"parent" decay into
an atom with a
mass number of 4
less than the
original. Reset the
nucleus to see the
randomness.

Student directions

Alpha Decay Names

Directions: Open

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Student Directions

Alpha Decay

1. Investigating “

Alpha Decay ” a.

Start on the Single Atom tab - observe the decay of Polonium -211. Use Reset Nucleus to watch the process repeatedly.

91Pa 89Ac -

University of

British Columbia

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Alpha Decay

Answer Key

Nuclear Decay. The following atoms all undergo alpha particle emission.

Write the complete nuclear equation.

alpha particle +

Pb-206 alpha

particle + Th-234

alpha particle +

Ra-234 alpha

particle + Po-218.

The following

atoms all undergo

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Alpha Decay
Answer Key

beta decay. Write
the complete
nuclear equation.
beta particle (e^-) +
N-14

NUCLEAR EQUATIONS WORKSHEET ANSWERS

19. Write an
equation showing
that when
protactinium-229

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Alpha Decay
Answer Key

goes through two alpha decays, francium-221 is formed. 20. Write the nuclear equation for the decay of PO-210 if it undergoes 2 consecutive alpha decays followed by a beta decay followed by another alpha decay. The decay chain (or

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Alpha Decay
Answer Key
series) of
uranium-238 is
shown in the
following figure.

Student Directions
Alpha Decay
Answer
Student directions
Alpha Decay Names
Learning Goals:
Students will be
able to: Explain

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Alpha Decay

process. Explain

what half-life means

in terms of single

particles and larger

samples. Directions:

Open Alpha Decay

1. Investigating

“ Alpha Decay ” a.

Start on the Single

Atom tab - observe

the decay of

Polonium -211. Use

Reset Nucleus to

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Alpha Decay
watch the process
repeatedly.

Ninth grade Lesson
Day 2: Calculating
Radioactive Decay
Decay Event Table

STEP #	DECAY
EVENT 1	ALPHA
2	BETA
3	ALPHA
4	ALPHA
5	BETA
6	ALPHA
7	ALPHA
8	ALPHA
9	BETA
10	ALPHA
11	BETA

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Alpha Decay
12 STABLE
Answer Key

Instructions:
Teacher Answer
Worksheet

Complete the graph
by following the
sequence of alpha
and beta decays
that actually occurs
in nature from the
decay event table.
Start with U235 and
Follow the steps
(inorder ...

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Alpha Decay

Answer Key
ALPHAS, BETAS
AND GAMMAS OH,
MY! - Nuclear
Science Week
the alpha decay of
polonium, and then
use the Gizmo to
check your answer.
What isotope
remains after the
alpha decay of
polonium-212?

_____ 5. Practice:

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Student Directions

Alpha Decay

Answer Key

Click Reset, turn off Show equation, and select Radium.

Write an equation for the alpha decay of radium, and then use the Gizmo to check your answer. What dangerous gas is produced by the decay ...

PhET Teacher
Activities: Alpha

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Alpha Decay
Lab

ALPHAS, BETAS
AND GAMMAS OH,
MY! 5 Instructions:
Teacher Answer
Worksheet

Complete the graph
by following the
sequence of alpha
and beta decays
that actually occurs
in nature from the
decay event table.

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Alpha Decay
Answer Key

Student directions
Alpha Decay -
Student directions
Alpha ...

Learning Goals:
Students will be
able to: x Explain
alpha decay
process. x Explain
what half-life means
in terms of single
particles and larger
samples. Directions:

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Student Directions

Alpha Decay

Open Alpha Decay
1. Investigating

3 Alpha Decay a.

Start on the Single Atom tab - observe the decay of Polonium -211. Use Reset Nucleus to watch the process repeatedly.

Beta Decay

Investigations -

PhET Contribution

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Student Directions
Alpha Decay
Answer Key

NUCLEAR
EQUATIONS
WORKSHEET

ANSWERS 1. Write a nuclear equation for the alpha decay of ${}_{91}^{231}\text{Pa}$. ${}_{91}^{231}\text{Pa} \rightarrow {}_{89}^{227}\text{Ac} + {}_2^4\text{He}$

2. Write a nuclear equation for the beta decay of ${}_{87}^{223}\text{Fr}$. ${}_{87}^{223}\text{Fr} \rightarrow {}_{88}^{223}\text{Ra} + {}_{-1}^0\text{e}$

3. Write a nuclear

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Alpha Decay

Answer Key

equation for the
alpha and beta

decay of $^{149}_{62}\text{Sm}$

$^{149}_{62}\text{Sm} \rightarrow ^4_2\text{He} +$

$^{145}_{60}\text{Nd} +$

0_{-1}^0e

Student directions

Alpha Decay Names

- Weebly

Learning Goals:

Students will be

able to: Describe

the process of Beta

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Student Directions

Alpha Decay
Answer Key

decay Differentiate
between Alpha and
Beta decay

Compare the
meaning of “ Half-
life ” for Alpha and
Beta decay.

Directions: Open
Beta Decay 1.

Investigating “ Beta
Decay ” a. Start on
the Single Atom tab
- observe the decay
of Hydrogen-3 and

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Alpha Decay
Carbon- 14. Use
Answer Key

JasmineEdwards_B
eta - Student
directions Beta
Decay NAME ...
Gauge your savvy
on alpha decay by
utilizing this
interactive quiz and
printable worksheet
on alpha decay.
With these tools,
you'll have the...

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Answer Key

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Beta Decay -

Speedtest.net

Alpha Decay

investigations:

Description This is a guided-inquiry lab that could be used as homework or with a substitute in either chemistry or physics. Learning Goals: Students will

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Answer Key
be able to: Explain
alpha decay

process. Explain
what half-life means
in terms of single
particles and larger
samples. Subject
Chemistry, Physics

Quiz & Worksheet -
Alpha Decay |
Study.com

The goal is to
realize that alpha

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Alpha Decay

Answer Key

decay will reduce the mass of isotope by 4 and atomic number by 2. After completing this I will have students volunteer to answer questions 4-6 on the board. Write an equation for the alpha decay of polonium, and then use the Gizmo to check your answer.

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Student Directions

Alpha Decay

What isotope remains after the alpha decay of polonium-212 ...

Nuclear decay worksheet - CTE Online

Have students examine each decay chain, identify the elements (or isotopes) within each decay chain,

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Alpha Decay

Answer Key

and determine whether each transformation is due to the emission of an alpha or beta particle. The Decay Chain Teacher Answer Key provides questions and answers to review with students. 7. Have students share (orally or in

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Alpha Decay
writing): What they
Answer Key
...

Alpha Decay
investigations -
PhET Contribution
Student directions
Beta Decay NAME:
Jasmine Edwards
Learning Goals:
Students will be
able to: Describe
the process of Beta
decay Differentiate

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Alpha Decay
Answer Key

between Alpha and
Beta decay

Compare the
meaning of “ Half-
life ” for Alpha and
Beta decay.

Directions: Open
Beta Decay (Add
space for answers
as needed. Save the
document as a
Microsoft Word
document.)

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Student Directions
Alpha Decay
Student
Answer Key
Exploration:

Nuclear Decay

As students walk in to class I have them pick up a guided notes sheet, take out the previous day ' s assignment and instruct them to answer the bell ringer in their journal. The questions are below

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Student Directions

Alpha Decay

Answer Key

in italics, answers
are in bold. Write a
nuclear equation for
the beta decay of
 $^{165}_{61}\text{Pm}$: $^{165}_{61}\text{Pm}$
 \rightarrow $^{165}_{62}\text{Sm}$
 $+$ $^0_{-1}\text{e}$; Write a
nuclear equation for
the alpha decay of
 $^{165}_{62}\text{Sm}$: $^{165}_{62}\text{Sm}$
 \rightarrow $^{161}_{58}\text{Ce}$...

Student directions

Alpha Decay.pdf -

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Alpha Decay
PhET
Answer Key

Learning Goals:

Students will be able to: Explain alpha decay process. Explain what half-life means in terms of single particles and larger samples. Directions: Open Alpha Decay

1. Investigating “ Alpha Decay ” a. Start on the Single

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Student Directions

Alpha Decay

Answer Key

Atom tab - observe
the decay of
Polonium -211. Use
Reset Nucleus

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