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Energy and Chemical

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Change Section

15.1 Energy In your textbook, read about the nature of energy.

In the space at the left, write true if the statement is true; if the statement is false, change the italicized word or phrase to make it true.

Energy and Chemical Change - dvusd.org

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Energy is conserved.

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$\Delta E = q + w$. E=energy change. q=heat. w=work done by the system. 2nd Law of Thermodynamics.

Spontaneous process results in an increase in the entropy of the universe.

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When chemical reactions occur, there is almost always a change in energy,

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which can be observed
as a change in
temperature of the
reaction mixture.

Exothermic reactions
release energy,
resulting in an increase
in temperature.

Endothermic reactions
absorb energy,
resulting in a decrease
in temperature.

**Chemical Changes
and Energy -
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You will measure and

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calculate the energy involved in chemical changes. You will write thermochemical equations and use them to calculate changes in enthalpy. You will explain how changes in enthalpy, entropy, and free energy affect the spontaneity of chemical reactions and other processes.

Chapter 16: Energy and Chemical

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544 Chapter 15 •
Energy and Chemical
Change. Predicting
changes in entropy
Recall that the change
in enthalpy for a
reaction is equal to the
enthalpy of the
products minus the
enthalpy of the
reactants. The change
in entropy (ΔS) during
a reaction or process is
similar. $\Delta S_{\text{system}} = S_{\text{products}} - S_{\text{reactants}}$.

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Chapter 15: Energy and Chemical Change

8th Science Energy
Study Guide Name
Period Date 8th
Science Energy Study
Guide Name Date
Period 8. When a
match is lit, energy
transforms from
chemical energy to
thermal (heat) energy
and light energy.
Describe the changes
in the chemical,
thermal, and light

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energy of the lit match.
(S8P2a,c) I. An engine
converts 95% of its
energy to mechanical
energy.

Oglethorpe County School District

To learn more about
chemical reactions,
review the lesson
called Common
Chemical Reactions
and Energy Change.
This informative lesson
covers these
objectives: Understand

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**Common Chemical
Reactions and
Energy Change -
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Answer Key Chemistry:
Matter and Change
T203 16 Energy 1000
joules/1 kilojoule. 13.
To convert kilojoules to
joules, divide the
number of kilojoules by
lost as heat, 12. When

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a fuel is burned, some of its chemical potential energy is 11. One calorie equals 4.184 joules. 10.

A1-Chapter 16 Study Guide

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Chapter 16: Energy & Chemical Change

Key

Energy is the ability to do work or cause change. What is heat energy? Heat energy is the transfer of thermal energy. Complete the sentence: The faster the molecules move, ... What is chemical energy? ... Energy Test Study Guide ...

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Chemical Change Test

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PLAY. Match. Gravity.

Created by.

Reid_Fellner. Terms in

this set (35) A. 1. What

are the signs of a

chemical reaction? The

signs of a chemical

reaction are gas

formation, solid

formation (precipitate),

color change, and

energy change. A. 2.

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**Study 35 Terms |
Chemical Change
Test... Flashcards |
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base. The chemical change is the wick burning. Chemical and Physical Changes
Physical change is on p. 518 of your textbook; chemical changes are found on pages 542-543. When you are determining

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whether a physical change has occurred, ask yourself, "Could the new substance return to its former state?" Water boiling on a stove is an example of a physical change.

Constructed Response Study Guide for Energy & Chemical ...

The addition of electrons or protons to a coenzyme is called

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reduction. Therefore, the chemical reactions performed by coenzymes are called oxidation-reduction reactions. The oxidation-reduction reactions performed by the coenzymes and other molecules are essential to the energy metabolism of the cell.

Chemical Reactions and Energy - CliffsNotes Study Guides

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Energy, Chemical

Changes Answer Key

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4-Matter, Energy, and
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May 6th) USE YOUR
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ASSIGNMENTS, LABS,
FORMATIVE
ASSESSMENTS, AND
HOMEWORK. ENERGY
AND THE TWO MAIN
TYPES 1. Energy is the
ability to do work or

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cause change and
occurs in many forms.
2.

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and Chemical Change
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Chemistry Chapter 15 Energy And Chemical Change Assessment ...

Enthalpy: Energy
Transfer in Physical

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relationship between
chemistry and energy.
We learn the general
properties of energy
and the concepts of...

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