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## *Change*

74 Chemistry: Matter and Change • Chapter 15  
Study Guide Energy and Chemical 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. 1.  
Energy is the ability to do work or produce  
heat. 2.

## *Energy and Chemical Change*

Chemical changes are accompanied by energy  
changes. This section begins to develop your

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understanding of this relationship by introducing some important terms that relate to energy. An understanding of what potential energy is and how it is related to stability is probably the most important (and perhaps the most difficult) part of this section.

## *Chapter 8 Energy and Chemical Reactions*

Potential energy increases. Enthalpy Changes in Reactions 1. Enthalpy a. Amount of energy stored in a substance. b. Changes during a phase change, chemical reaction, or nuclear reaction. i. Phase Change- the bonds between molecules break or form (intermolecular

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forces). o Changes potential energy, but not kinetic energy and temperature. ii.

*3. Study Guide- Energy Changes and Rates of Reaction.docx ...*

Chapter 15: Energy and Chemical Change Study Guide Energy Chemical Change Answer Key When chemical reactions occur, there is almost always a change in energy, 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



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Change Answers ...*

Spontaneous chemical change is least likely to occur when there's a/an (a) increase in potential energy accompanied by a decrease in entropy (b) decrease in potential energy accompanied by an ...

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Energy and Chemical Change - [dvusd.org](http://dvusd.org) Study Guide Energy Chemical Change Energy is conserved.  $\Delta E = q + w$ . E=energy change. q=heat. w=work done by the system. 2nd Law of

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Thermodynamics. Spontaneous process results in an increase in the entropy of the universe. Page 1/5

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Give some examples of chemical changes.

1. wood burning. 2. fireworks exploding. 3. metal rusting. 4. cake baking What are clues, or evidence, that a chemical reaction has taken place? Evidence that energy was used or given off, the properties of the new substance are different than the original substances, and the change cannot be easily reversed. How is a physical change different

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from a chemical change?

*Unit 5: Physical and Chemical Changes in  
Matter Study Guide*

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phase energy ( $E_{ph}$ ) -energy stored in system due to arrangement of particles that exert attractions on one another. (energy account involved when phase changes occur)  
-Attractions result in decrease of energy of a system of particles. -As particles become more tightly bound, their phase energy is lowered. -Solids possess lowest phase energy, and liquids possess more because the particles move freer.

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Chemical Change Test Study Guide. STUDY.  
Flashcards. Learn. Write. Spell. Test. PLAY.

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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. How does a precipitate form?

*Study 35 Terms | Chemical Change Test...*

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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

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(heat) energy and light energy. Describe the changes in the chemical, thermal, and light energy of the lit match. (S8P2a,c) I. An engine converts 95% of its energy to mechanical energy.

*Oglethorpe County School District*

SECTION CHEMICAL ENERGY AND ATP 4.1 Study  
Guide Study Guide Energy Chemical Change

Energy is conserved.  $\Delta E = q + w$ . 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. Chemical Energy And Study

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Guide Answer

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