

## Study Guide 12 Thermal Energy Answer Key

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### Study Guide 12 Thermal Energy

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The change in thermal energy of an object is equal to the heat that is added to the object minus the work done by the object. Hot air from the room will transfer energy to the cooler air in the refrigerator.

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heat. energy transferred between two objects in contact with one another and always flows from the hotter object to the cooler object. convection. a type of thermal energy transfer that occurs from the motion of fluid in liquid or gas that is caused by differences in temperature. radiation.

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States of Matter and Thermal Energy Study Guide \_\_\_ LT 1: I can identify, define, give examples, and illustrate the states of matter of substances. \_\_\_ LT 2: I can predict the effect of adding or removing thermal energy. \_\_\_ LT 3: I can explain the transfer of thermal energy between particles through conduction.

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Thermal energy refers to the TOTAL energy of all of the particles in a substance. Therefore, the thermal energy of a substance depends on the amount, while the temperature does not. Heat is the transfer of thermal energy from one object/substance to another, which results in a temperature change. Click again to see term

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Heat energy is the transfer of thermal energy. Complete the sentence: The faster the molecules move, the higher the temperature. What is solar energy? Solar energy is the energy from the Sun, which provides heat and light energy for Earth. ... Energy Test Study Guide ...

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in Textbook Connection on Physics - 4th Nine Weeks. Walter Wilkins renamed McGraw Hill; Chapter 12 Thermal Energy; Pg. 318-345 (from McGraw Hill; Chapter 6 Gravitation; Pg. 176-201)

### **McGraw Hill; Chapter 12 Thermal Energy; Pg. 318-345 on ...**

Thermal energy is energy possessed by an object or system due to the movement of particles within the object or the system. Thermal energy is one of various types of energy, where 'energy' can be...

### **What is Thermal Energy? - Study.com**

Thermal Energy and Heat Study Guide 1. What is the average kinetic energy of the particles in an object called? \_\_\_\_ 2. If two glasses of water are the same temperature, the average \_\_\_\_ energy is the same. 3. A one-degree change on the Celsius scale is equal to a one-unit change on the \_\_\_\_ scale. 4.

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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 (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 ...

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Study Guide for Energy (KE, PE, Work and Power, Simple Machines, Thermal) Energy. Understand the difference between . Kinetic . Energy and Potential Energy – identify on a diagram Unit for energy is Joules. Be able to identify an energy as Kinetic or Potential, based upon a description of a situation. Know how to use the formula .  $KE = \frac{1}{2}mv^2$  . 2 ...

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12. Define the 3 Types of Heat Transfer and give an example of each type: 13. What is the measure of the average kinetic energy of the individual particles in an object called? 14. Where does the energy in fossil fuels originally come from? 15. Describe the relationship between the mass of an object and the amount of thermal energy an object ...

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thermal energy- the form of energy that moves particles of matter temperature-the measure of how hot or cold something is conduction-the movement of heat between objects that are touching each

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other insulator-an object that doesn't conduct heat well

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THE MOVEMENT OF HEAT FROM WARMER TO COOLER. 12. Define the 3 Types of Heat Transfer and give an example of each type: CONDUCTION-TOUCHING A HOT IRON. CONVECTION-WARM AIR GOING TO THE CEILING. RADIATION-LIGHT FROM A LAMP KEEPING FOOD WARM. 13. What is the measure of the average kinetic energy of the individual particles in an object called? TEMPERATURE. 14.

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Thermal energy is vital for living creatures, chemical reactions, and the working of engines. Solar EnergyA strategy used to produce electric power from sunlight concentrates the light with many mirrors onto one collector that becomes very hot.

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