

**Note-taking
Worksheet****Thermal Energy****Section 1 Temperature and Heat**

- A. _____—related to the average kinetic energy of an object's atoms or molecules
- B. _____—the sum of the kinetic and potential energy of all the atoms in an object
1. Thermal energy _____ as temperature increases.
 2. At constant temperature, thermal energy increases if _____ increases.
- C. Thermal energy that flows from something at a higher temperature to something at a lower temperature is called _____.
- D. _____—amount of heat needed to raise the temperature of 1 kg of a material by 1 degree C or K
- E. Changes in thermal energy can be calculated as *change in thermal energy equals _____ times change in temperature times specific heat*.
1. When heat flows into an object and its temperature rises, the change in temperature is _____.
 2. When heat flows out of an object and its temperature decreases, the change in temperature is _____.
 3. A _____ is used to measure specific heat.

Section 2 Transferring Thermal Energy

- A. _____—transfer of thermal energy through matter by direct contact of particles
1. Kinetic energy is transferred as particles _____.
 2. _____, particularly metals, are good heat conductors.
- B. The transfer of energy by the motion of heated particles in a fluid is called _____.
1. Convection _____ transfer heat from warmer to cooler parts of a fluid.
 2. Convection currents create _____ and _____ over different regions of Earth.

Thermal Energy Note Taking Answer Key

Yatish T. Shah

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Grossman, 2008-04-15 Here is your starting point and complete guide to polyvinyl chloride PVC formulation It covers the basics of vinyl formulation starting formulations for compounds and the latest compounding ingredients Since publication of the acclaimed first edition a standard reference used by vinyl technologists around the world there have been many new developments in vinyl formulation as well as new discoveries and insights into the underlying mechanisms It's all covered here in the second edition in one highly readable expertly organized volume **Inquiring Scientists, Inquiring Readers**

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Pam Walker, Elaine Wood, 2010-10-05 A hands on and fun filled resource for teaching science to middle and high school students New in the 5 Minute Fundamentals Series *The Science Teacher's Activity A Day Grades 6-12* includes 180 easy five minute hook or sponge activities to capture learners attention and introduce lessons Divided into three units Physical Science Life Science and Earth and Space Science the activities cover topics based on the National Science Education Standards All the book's activities can be done with materials that are inexpensive and easy to find Includes quick and fun sponge activities that are designed to engage students All the activities take about 5 minutes to complete *The Science Teacher's Activity a Day* is an ideal resource for middle and high school science teachers **The Nature of Matter Gr. 5-8 , In Their Own**

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