

Chapter 6- Thermal Energy

I. Temperature and Heat

- A. Temperature—related to the average kinetic energy of an object's atoms or molecules.
- B. Thermal energy—the sum of the kinetic and potential energy of all the atoms in an object.
 1. Thermal energy increases as temperature increases.
 2. At constant temperature, thermal energy increases if mass increases.
- C. Thermal energy that flows from something at a higher temperature to something at a lower temperature is called heat.
- D. Specific heat—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 mass times change in temperature times specific heat.

1. Calculating change in energy

$$Q=mc\Delta T \quad Q=\text{energy (J)} \quad m=\text{mass (kg)} \quad \Delta T=\text{Change in temperature}$$

2. When heat flows into an object and its temperature rises, the change in temperature is positive.
3. When heat flows out of an object and its temperature decreases, the change in temperature is negative.
4. A calorimeter is used to measure specific heat.

II. Transferring Thermal Energy

- A. Conduction—transfer of thermal energy through matter by direct contact of particles.
 1. Kinetic energy is transferred as particles collide.
 2. Solid, particularly metals, are good heat conductors.
- B. The transfer of energy by the motion of heated particles in a fluid is called convection.
 1. Convection currents transfer heat from warmer to cooler parts of a fluid.
 2. Convection currents create rainforests and deserts over different regions of Earth.
- C. Convection currents take place in liquids and air.
- D. Radiation—energy transfer by electromagnetic waves
 1. Some radiation is absorbed and some is reflected when it strikes a material.
 2. Heat transfer by radiation is faster in a gas than in a liquid or solid.
- E. Most living things control the flow of heat by using special features such as fur, blubber, or scales.
- F. Insulator—material that does not let heat flow through it easily
 1. Gases such as air usually make better insulators than liquids or solids.
 2. A vacuum layer in a thermos is a good insulator because it contains almost no matter to allow conduction or convection to occur.

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Earth Science Puzzles Kim Kastens, Margie Turrin, 2010. Teachers of Earth and environmental sciences in grades 8-12 will welcome this activity book centered on six OCO data puzzlesOCO that foster critical thinking skills in students and support science and math standards. Earth Science Puzzles presents professionally gathered Earth science dataOCO including graphs, maps, tables, images, and narrativesOCO and asks students to step into scientistsOCO shoes to use temporal, spatial, quantitative, and concept based reasoning to draw inferences from the data.

Motion, Forces, and Energy Michael J. Padilla, Peter Kahan, 2002

Energy Research

Abstracts, 1983. Semiannual with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government sponsored information and foreign nonnuclear information. Arranged under 39 categories e.g. Biomedical sciences basic studies, Biomedical sciences applied studies, Health and safety, and Fusion energy. Entry gives bibliographical information and abstract. Corporate author, subject, report number, indexes.

Inquiring Scientists, Inquiring Readers in Middle School Terry Shiverdecker, Jessica Fries-Gaither, 2016-11-30. Great news for multitasking middle school teachers. Science educators, Terry

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[AQA Physics for GCSE](#) Ben Clyde, 2007-06-13 An exact match to AQA which includes personalised learning activities enable students to review what they have learnt and advice from examiners on common pitfalls and how to avoid them

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