

Chemistry – Unit 3 Reading Assignment

Energy and Kinetic Molecular Theory

The story behind the difficulty we have with energy is fascinating to those of us who struggle with trying to teach energy in a coherent way, but it is long and difficult - much of it would be lost on students whose goal is to get a grip on how to use energy to describe change in the world. Nonetheless, a brief bit of background might help you understand how we are going to approach the study of energy. In the 18th and 19th centuries scientists wrestled with identifying and describing the nature of the “stuff” that produced change. One concept that became popular for a while was that of “caloric” (what we now call heat).

“Caloric was originally conceived of as a quantity that would flow from a hotter object to a cooler one that would warm up as a result. It answered the need for a way for the cause of warming to get from here to there. Not only did caloric serve as a cause for warming, it was also considered to be the cause for changes of phase. Caloric enabled particles of a substance to move farther apart until the attractions of the particles for each other became too weak to hold them together. Although Lavoisier did not think that caloric necessarily was an actual substance, in its storage and transfer it was like a substance.”¹

When scientists recognized that the “stuff” involved when forces were applied to objects to lift them or change their speed was the same “stuff” that was involved when the temperature of objects changed, they worked to develop a single energy concept. So when the energy concept was developed it was important to distinguish it from caloric. In stuffing out the caloric concept, the clear picture of energy storage and transfer that it fostered was unnecessarily lost, too.”²

Even though we recognize that energy is not a physical substance, we choose to use the substance metaphor to describe it. We'll use three principles to guide us in the development of the energy concept.

1. Energy can be viewed as a substance-like quantity that can be stored in a physical system.
2. Energy can “flow” or be “transferred” from one system to another and so cause changes.
3. Energy maintains its identity after being transferred.

Unit 3 Energy Reading Study Guide Answers

James Trefil



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Matter and Energy ,2005 **Resources in Education** ,2001 *Q: Skills for Success 3E Reading & Writing Level 3*
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rigorously but clearly and with an emphasis on the visualizable aspects Thus readers whose background is not in physics will deepen their knowledge of physics gain an understanding of what keeps the huge airliners up and appreciate some of the details of the exciting recent developments in technology

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