

Energy Reading Study Guide

Historical view:

Describe what early chemists meant by *caloric*

What is our more modern word for caloric? _____

Our understanding of what causes changes to happen took two different paths that we eventually realized were the same. In paragraph 3 these are identified. Describe the two kinds of change scientists had studied.

- 1.
- 2.

What two ideas about energy were lost when the caloric idea was abandoned?

The _____ and _____ of energy

Summarize the three principles guiding our modern view of energy.

- 1.
- 2.
- 3.

Information is used as a metaphor to describe what energy is like. Describe the ways information is like energy, according to your reading.

Money accounts are another metaphor that can help us understand energy storage and transfer. Describe the ways money accounts are like energy.

We describe three storage “accounts” to understand the changes we see in chemistry. State their names and describe how energy is stored in these three storage modes (how would you recognize that energy is present in these accounts in a system of matter?).

1.

2.

3.

We can transfer energy by three mechanisms. Identify the three and state how you would recognize each one in a system of matter.

1.

2.

3.