

Thermochemistry Webquest

Directions: Use the following website to complete this assignment:

<https://flexbooks.ck12.org/cbook/ck-12-chemistry-flexbook-2.0/section/17.1/primary/lesson/chemical-potential-energy-chem/>

You will need to navigate to each section by clicking the right arrow button.

17.1 Chemical Potential Energy (highlight answers in blue)

1. What are the two basic types of energy that exist? Include their definitions below.
 - a. **Potential energy**
 - i. Definition: **stored energy**
 - b. **Kinetic energy**
 - i. Definition: **energy of motion**
2. What is chemical potential energy?
 - a. Definition: **Energy stored within chemical bonds**
 - b. Provide an example of chemical potential energy: **Gasoline that has chemical potential energy before being burned**

17.2 Heat (highlight your answers in red)

3. What is Heat?
 - a. Definition: **energy that is transferred from one object or substance to another because of a difference in temperature between them**
 - b. **Heat always flows from an object at a higher temperature to an object at a lower temperature**
 - c. **The flow of heat will continue until the two objects are at the same temperature**
4. What is Thermochemistry?
 - a. Definition: **the study of energy changes that occur during chemical reactions and during changes of state**

17.3 Exothermic Reaction (highlight answers in yellow)

5. Chemical reactions that give off energy are called: **exothermic** reaction.
6. All chemical reactions involve **energy**
 - a. When is energy used in chemical reactions?
Energy is used in chemical reactions during the breaking of bonds in the reactants.
 - b. When is energy released in chemical reactions?
Energy is released in chemical reactions when new bonds are formed in the products.

Thermochemistry Energy Webquest Answer Key

Padhraic Smyth

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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