

## Chapter 10: Basic Review Worksheet

1. How is the concept of energy defined?
2. As a ball rolls down a hill \_\_\_\_\_ energy decreases, \_\_\_\_\_ energy increases, and \_\_\_\_\_ energy remains the same.
3. What is meant by the term *state function*? Provide an example.
4. What does temperature measure?
5. Explain what is meant by the terms *exothermic* and *endothermic*.
6. Define the terms *system* and *surroundings*.
7. What are some common units of energy and how are these units defined?
8. For each of the following amounts of energy, perform the indicated conversion of units.
  - a. 459 J to calories
  - b. 55.33 kJ to joules
  - c. 84.1 kJ to kilocalories
9. Calculate  $\Delta H$  for each of the following cases:
  - a.  $q = 34 \text{ J}$ ,  $w = -22 \text{ J}$
  - b.  $q = -28 \text{ J}$ ,  $w = -25 \text{ cal}$
  - c.  $q = -15 \text{ J}$ ,  $w = +12 \text{ J}$
10. For an endothermic process,  $q$  is reported with a \_\_\_\_\_ sign, and for an exothermic process,  $q$  is reported with a \_\_\_\_\_ sign.
11. What is meant by the term *specific heat capacity* of a material?
12. Calculate the mass (in grams) of each of the following substances that could be warmed over the indicated temperature range by application of exactly 1.0 kJ of energy.
  - a. water, from 15°C to 42°C
  - b. iron, from 25°C to 125°C
  - c. carbon, from -10°C to 47°C
13. What is meant by the term *enthalpy*?
14. Why does the quality of energy decrease when we use it?
15. What is the driving force for every exothermic process?

# Chapter 10 Basic Review Worksheet

**J Dewey**



## **Chapter 10 Basic Review Worksheet:**

## Reviewing **Chapter 10 Basic Review Worksheet**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Chapter 10 Basic Review Worksheet**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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