

# Unit 1: Matter and Energy

## Unit Review

Name: **KEY**

Date: \_\_\_\_\_ Class: \_\_\_\_\_

**Directions:** Complete the following review questions. Review your Cornell notes, learning targets, worksheets, labs, and other assignments to adequately prepare for the unit test.

### Learning Target(s): 1, 2, 3, 4, 10

1. In the Melting of a Solid lab, you heated (or cooled) an unknown solid and recorded its temperature at 30-second intervals. From this data you created a heating (or cooling) curve to identify the substance.
  - a. Identify the independent variable of this experiment: **the time you heat the solid for**
  - b. Identify the dependent variable of this experiment: **the temperature of the solid**
  - c. Identify the control for this experiment: **substance used; method of heating**
2. Decide whether the following observations are qualitative or quantitative:
  - a. The solution began to get cloudy once the second reagent was added. **Qualitative**
  - b. The piece of magnesium was 1.25 centimeters in length. **Quantitative**
  - c. The mass of the block decreased by fifteen grams. **Quantitative**
  - d. The test tube appeared to have a dark orange solid suspended in the solution. **Qualitative**
  - e. The residue left in test tube 5 was slightly larger than in test tube 4. **Qualitative**

### Learning Target(s): 1-15

3. Suggest a process to use to separate each of the following mixtures:
  - a. A mix of salt and water: \_\_\_\_\_
  - b. A smoothie drink with veggies and fruits of different densities: \_\_\_\_\_
4. Which physical property does filtration use to separate a mixture? \_\_\_\_\_

### Learning Target(s): 5, 6

5. Describe at least two safety precautions to use when using a Bunsen Burner in lab:
  - a. **Tie back hair and loose clothing**
  - b. **Light match first then turn on gas valve**
6. Which type of lab equipment would be most appropriate to measure 4 mL of water in? Choose one and explain why.

<ol style="list-style-type: none"><li>a. A 250 mL beaker</li><li>b. <b>A 10 mL graduated cylinder</b></li><li>c. An electronic balance</li></ol>	<ol style="list-style-type: none"><li>d. A 50 mL graduated cylinder</li><li>e. A large test tube</li><li>f. A thermometer</li></ol>
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*You would get the most accurate measurement with this size. This piece of equipment has graduations to measure volume.*

# Energy Review Guide Answers

**Kathleen Armour**

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.

## **Energy Review Guide Answers:**

## **Energy Review Guide Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Energy Review Guide Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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