

# 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

**Arshad Iqbal**



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