

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">a. A 250 mL beakerb. A 10 mL graduated cylinderc. An electronic balance	<ol style="list-style-type: none">d. A 50 mL graduated cylindere. A large test tubef. A thermometer
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You would get the most accurate measurement with this size. This piece of equipment has graduations to measure volume.

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