

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

- 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.
 - Identify the independent variable of this experiment: **the time you heat the solid for**
 - Identify the dependent variable of this experiment: **the temperature of the solid**
 - Identify the control for this experiment: **substance used; method of heating**
- Decide whether the following observations are qualitative or quantitative:
 - The solution began to get cloudy once the second reagent was added. **Qualitative**
 - The piece of magnesium was 1.25 centimeters in length. **Quantitative**
 - The mass of the block decreased by fifteen grams. **Quantitative**
 - The test tube appeared to have a dark orange solid suspended in the solution. **Qualitative**
 - The residue left in test tube 5 was slightly larger than in test tube 4. **Qualitative**

Learning Target(s): 15

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

Learning Target(s): 5, 6

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

a. A 250 mL beaker	d. A 50 mL graduated cylinder
b. A 10 mL graduated cylinder	e. A large test tube
c. An electronic balance	f. A thermometer

You would get the most accurate measurement with this size. This piece of equipment has graduations to measure volume.

Science Review Sheet Unit 1 Freshman

Lingjun Ying



Science Review Sheet Unit 1 Freshman:

Resources in Education ,1995 *Electricity and Magnetism for Freshmen Physical Science* David N. Dean,2002

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