# Unit 1: Matter and Energy

Name: KEY
Date: Class:

<u>Directions</u>: 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.
  - 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:
  - 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
  - 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 Torget(s): 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
- Which type of lab equipment would be most appropriate to measure 4 mL of water in? Choose one and explain why.
  - n. 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.

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**Lingsheng Yao** 

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