

# 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> |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|

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

# Knowledge Matter Answer Key

**Jiyuan Zhang**



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the main components of a water project include water intakes break pressure tanks water points valve chambers and storage sedimentation tanks the following sections describe the

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the intake structures placed in rivers or streams should be determined from the water level of the flow which is determined by hydraulic studies the influence of the intake structure or the

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6 plan intake structures conveyance and distribution the principal engineering challenge of any irrigation system consists in withdrawing water from a source delivering it to land in due

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1 water intake structures depend on the type of pond you have you learned earlier that a fish pond can be supplied with water from different sources see chapter 1 several types of pond

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5 1 1 main intake structure the intake structure is built at the entry to the irrigation system see fig 70 its purpose is to direct water from the original source of supply lake river reservoir

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4 4 1 2 2 intake the intake structure is the connection between the headwater and penstock or turbine usually at the entrance of the intake there is a screen responsible for keeping

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