

Name _____ Date _____ Hour _____

Physical Science Guided Reading Questions

Chapter 1-2: Standards of Measurement

1. Define the following key terms
 - a. Volume
 - b. Matter
 - c. Mass
 - d. Density

2. The text describes using your hand as a measuring device, why is this not a good idea if you are trying to decide whether something will fit through the door?

3. What is a standard?

4. Why in science to numbers need units?

5. What SI unit would I use if I wanted to measure
 - a. the length of the classroom?
 - b. The mass of a person?
 - c. The time it takes to travel from our classroom to the cafeteria?

6. Why does the text say the SI system is easy to use?

7. What can I use to convert from one SI unit to another?

8. According to the text, how do we define "length" in science?

9. How do we find the volume of a solid rectangular object?

10. A block measures 10 cm long, 5 cm wide, and 3 cm high, what would this blocks volume be?

11. How does the mass of a bowling ball compare with the mass of a golf ball?

12. What's a derived unit? Give an example of a unit we will be using.

13. According to the text, how do we define "time" in science?

14. From the Section Review on pg 20
 - a. Explain why it is important to have exact standards of measurement.