

Measurement Review Activity

- 1) Name the SI base unit for the following:
 - a. Volume
 - b. Length
 - c. Temperature
 - d. Time
 - e. Mass
- 2) Measure you and your partner's heights in meters, then in centimeters?
- 3) Each of you independently measure 100 ml of water in a large beaker – then transfer it to a 100 ml graduated cylinder and record the volume that the cylinder reads (use the bottom of the meniscus). Then compare your answers. Record your results.
- 4) With a meter stick, measure and record the following items:
 - a. The length, width, and height of a bookshelf
 - b. The length, width, and height of the slate top of my desk
 - c. The length, width, and height of the room
 - d. The length and height of the blackboard
- 5) Using the measurements in #4, calculate the volume of the following:
 - a. Bookshelf
 - b. Desk top
 - c. The room
- 6) Using the measurements in 4d, calculate the surface area of the blackboard.
- 7) What is density, conceptually and mathematically?
- 8) How is the volume of an irregularly shaped object determined?
- 9) Using a graduated cylinder, measure and record the volume of a rubber stopper.
- 10) Determine and record the density of a rubber stopper.
- 11) Using a graduated cylinder, measure and record the volume of a marble.
- 12) Determine and record the density of the marble.
- 13) If an object has a mass of 42 grams and a volume of 15 ml, what is its density?
- 14) What prefixes are used to represent the following quantities:
1/10, .01, 1/1000, 1000, 10, 1,000,000 1/1,000,000,000