

Date _____ Name _____

Metric Volume Measurement Lab Activity

OBJECTIVE: In this activity, we will review metric units for measuring volume – the liter, deciliter, centiliter, and milliliter.

PROCEDURE: 1. Use a graduated cylinder to measure the volumes listed in the chart below. You may need to convert units. Make sure you read the volume at the meniscus.

Object	Volume	Units
Nail		Milliliter (ml)
Screw		Centiliter (cl)
Penny		Deciliter (dl)
Rock		Liter (l)

THINK DEEPER: Answer the following questions as completely as you can.

- A. Why is it necessary to recheck the starting volume of liquid before each object is put in the graduated cylinder?

- B. What kind of error would result if you read the liquid volume where the liquid touches the wall of the cylinder rather than the meniscus?

- C. Why should we use the “measuring volume by difference” method on some objects rather than calculating it mathematically?

- D. If you measure a volume in milliliters, what procedure do you use to obtain a volume in liters?

- E. Would it be more accurate to convert from liters to milliliters OR milliliters to liters? Why?