

CHEM 1000 Discussion Worksheet: Metric System, Conversions, and Density  
(Answers: see the laboratory page of the class website [www.uwyo.edu/chem1000](http://www.uwyo.edu/chem1000))

1. Give the metric system base unit name and symbol for the following.

|             | length | mass | volume | temperature | amount of substance |
|-------------|--------|------|--------|-------------|---------------------|
| unit (name) |        |      |        |             |                     |
| symbol      |        |      |        |             |                     |

2. What is the metric system prefix name corresponding to each of the following symbols?

c \_\_\_\_\_       $\mu$  \_\_\_\_\_      k \_\_\_\_\_

M \_\_\_\_\_      m \_\_\_\_\_

3. Place the following in order of increasing size: cm Mm  $\mu$ m m km mm

(smallest) < \_\_\_\_\_ < \_\_\_\_\_ < \_\_\_\_\_ < \_\_\_\_\_ < \_\_\_\_\_ (largest)