Chemistry: Guided Reading Chapter 2-1

- 1. Why do scientists need standard units of measurement?
- 2. What are the standard base units for mass, length, time, and temperature?
- 3. How many pounds are in a kilogram? How many kilos would a person weigh if they weighed 154 pounds?
- 4. Which units will we most often use chemistry?
- 5. How is temperature usually defined? What are the 3 temperature scales?
- 6. A friend calls you from Canada, they are on spring break and report that it is 30°C outside, what is this temperature in °F?
- 7. Between which two temperature scales can we easily convert from one temperature to another?
- 8. What's a derived unit? Give one example of a derived unit.
- 9. What is density? What quantities do we need to know in order to calculate density?
- 10. Review: What is the purpose of using standard units? How does this connect back to creating a valid scientific experiment?



Metric Conversions

Name

Fill in the boxes in the stair step diagram.



Write the correct abbreviation for each metric unit.

 1) Kilogram _____
 4) Milliliter _____
 7) Kilometer _____

 2) Meter _____
 5) Millimeter _____
 8) Centimeter _____

 3) Gram _____
 6) Liter _____
 9) Milligram _____

Try these conversions, using the ladder method.

