

## **What should you know for chemistry?**

**(as of October 17)**

(I will almost always provide a periodic table and conversion factors not mentioned below on quizzes and exams)

In addition to skills practice on any workshop question, to be fluent in chemistry (and geology or biology) there are some items that have to become part of your vocabulary. The ones I think worth memorizing are listed below.

### **Memorization** (for now, this list will grow)

Common metric prefixes (table 1.5)

Basic SI units

Density of water and relationship between mL and cm<sup>3</sup>

Fundamental atomic particles and their properties (proton, neutron, electron)

Common elements and their symbols

For now, start with red and blue elements in figure 2.24. Then later add Table 1.2 and the elements in green.

Names and properties of some groups of elements

Table 2.3, Figure 2.19 (diatomic molecules), Figure 2.22 (charges of common ions related to position on periodic table)

Patterns in naming:

Relationship between -ate, -ite, hypo-, per-  
Acids to anions and vice versa

Names and charges of common ions:

For now, bold entries on table 2.4 and table 2.5

### **Coming in the future:**

Avogadro's number