

Chem 1020

In chemistry this is a certain amount of base information that is assumed that you know. For example, it's hard to write formulas if you still don't know basic elements or ions. Therefore, below is a list of tables and other information that you will be asked to know (memorize) throughout this semester. This is not a complete list, but I wanted to have something to hand out the first day of class. It is the same information that you are expected to know for the final. Much of the information will be reinforced throughout the semester in class and lab and because it is used often, you will be surprised at how easily the information is retained.

Chapter	info	page in text	description
Chapter 2	Table 2.2	24	Prefixes tera through pico
Chapter 3	Table 3.1	58	Properties of liquids solids and gases
Chapter 3	Figure 3.16	71	Freezing point and boiling point of water on all three temperature scales
Chapter 4	Handout		Highlighted elements on periodic table. Know element name and symbol (spelling counts)
Chapter 4	figure 4.14	108	Elements that form predictable ions (helpful to learn trends)
Chapter 5	Table 5.2	134	Elements that occur as diatomic molecules
Chapter 5	Table 5.4	139	Some common anions
Chapter 5	Table 5.6	141	Common polyatomic ions. Know ion, formula and charge of acetate, ammonium, bicarbonate, carbonate, chlorate, cyanide, hydroxide, nitrate, phosphate and sulfate. Start with these 10 ions first.
Chapter 5	lecture notes	143	Greek Prefixes 1-10
Chapter 7	Table 7.1	210	Phase Labels
Chapter 7	Table 7.3	223	Common acids and bases
Chapter 9	Figure 9.27	299	Orbital filling order
Chapter 14	Table 14.1	488	Common Acids (introduced in Chapter 7)
Chapter 14	Table 14.2	490	Common Bases (introduced in Chapter 7)
Chapter 14	Table 14.3	501	Strong Acids (introduced in Chapter 5)
Chapter 14	Table 14.5	503	Strong Bases
Chapter 18	Table 18.1	651	Know formulas for first 10 alkanes
Chapter 18	Table 18.3	654	Greek prefixes for alkanes (introduced in Chapter 5)
Chapter 18	Table 18.4	654	Common alkyl groups
Chapter 18	Table 18.7	675	Functional Groups (plus amides)