

**Chapters 1-25 Images in Campbell Biology that you might want to review for tests.**

-This is not a list of the only things you should study. It is meant only to help you focus.

-Please also review the reading questions you have answered, the vocabulary you have defined, the review guides for the units and the labs, and read the summary of key concepts at the end of each chapter.

-If you know it, check it off and please go to the next topic. I recommend you do not spend time reviewing material you understand.

Chapter 1 Exploring Life

Figure 1.3-Know the levels and an example of each

Figure 1.11-Understand the concept

Figure 1.12-Understand the concept

Figure 1.14- Did King Philip Come Over For Good Snacks!

Figure 1.15-Know the three domains and 3 characteristics of each

Table 1.1-Understand these themes—they show up on essays often

Chapter 2 The Chemical Context of Life

Figure 2.11-Understand the importance of carbon in the diversity of life

Figure 2.10-Understand how covalent bonds are formed

Figure 2.13-Understand how ionic bonds are formed

Chapter 3 Water and the Fitness of the Environment

Figure 3.2-Know how hydrogen bonds form

Figure 3.5-Know how ice forms and the significance of this for living organisms

Figure 3.6 and 3.7-Understand how substances dissolve in water

Figure 3.8-Know what the pH scale is and examples of an acid, a base, and a neutral substance

Chapter 4 Carbon and the Molecular Diversity of Life

Figure 4.5-Understand the possible variations found in carbon skeletons

Figure 4.7-Know the three types of isomers

Figure 4.10-Know the functional groups

Chapter 5 The Structure and Function of Macromolecules

Figure 5.2-Know how to synthesize and breakdown a polymer

Figures 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.10, 5.11, 5.12, 5.13, 5.14, 5.15, 5.17-Skim through the images so you are familiar with what these molecules look like (good examples)

Figure 5.16-Know how an enzyme works

Figure 5.18-Know how to make a peptide bond, ester bond, glycosidic linkage, and a phosphodiester bond and know the monomers that are put together for each

Figure 5.20-Know the four levels of protein structure (Figure 5.21 good example)

Figure 5.22-Understand denaturation

Figure 5.23-Know what a chaperonin does

Chapter 6 A Tour of the Cell

Figure 6.2-Just get the approximate idea of sizes

Figure 6.5-Know what cell fractionation is used for

Figure 6.6-Know the parts of a prokaryotic cell

Figure 6.7-Understand the concept

Figure 6.9-Know the parts of eukaryotic cells

Figure 6.14-Understand how lysosomes work

Figure 6.16-Understand the endomembrane system

Figures 6.17 and 6.18-Know the structure of a mitochondria and chloroplast

Figures 6.24, 6.25, 6.27-Review the structure in general

Figures 6.30 and 6.31-Know the different types of junctions

Chapter 7 Membrane Structure and Function

Figure 7.5-Understand the concept of membrane fluidity