

**Learning Objectives** After studying this chapter, you should be able to: identify the characteristics of life; explain the scientific method; describe the cell theory; explain the differences between prokaryotic and eukaryotic cells; describe the structure and function of the cell membrane; explain the structure and function of the nucleus; describe the structure and function of the endoplasmic reticulum; describe the structure and function of the Golgi apparatus; describe the structure and function of the lysosomes; describe the structure and function of the mitochondria; describe the structure and function of the chloroplasts; describe the structure and function of the vacuoles; describe the structure and function of the centrioles; describe the structure and function of the cilia and flagella; describe the structure and function of the cell wall; describe the structure and function of the cell plate; describe the structure and function of the cell cycle; describe the structure and function of the meiosis and mitosis; describe the structure and function of the DNA and RNA; describe the structure and function of the proteins; describe the structure and function of the lipids; describe the structure and function of the carbohydrates; describe the structure and function of the nucleic acids; describe the structure and function of the enzymes; describe the structure and function of the hormones; describe the structure and function of the neurotransmitters; describe the structure and function of the antibodies; describe the structure and function of the antigens; describe the structure and function of the vaccines; describe the structure and function of the antibiotics; describe the structure and function of the antiviral drugs; describe the structure and function of the antifungal drugs; describe the structure and function of the antiparasitic drugs; describe the structure and function of the anticancer drugs; describe the structure and function of the immunosuppressants; describe the structure and function of the immunomodulators; describe the structure and function of the immunostimulants; describe the structure and function of the immunosuppressants; describe the structure and function of the immunomodulators; describe the structure and function of the immunostimulants.

The Discovery of the Cell		
<b>Early Microscopes</b>	Microscopes of the seventeenth century were made of glass lenses.	Microscopes that use lenses of different materials are called compound microscopes.
<b>The Cell Theory</b>	Microscopes of the eighteenth century were made of glass lenses and were called simple microscopes.	Microscopes that use lenses of different materials are called compound microscopes.
Supporting the Cell Theory		
<b>Light Microscopes</b>	Light microscopes use lenses of different materials.	They consist of two sets of lenses of different materials.
<b>Electron Microscopes</b>	Electron microscopes use beams of electrons instead of light.	They consist of two sets of lenses of different materials.
<b>Transmission Electron Microscopes</b>	Transmission electron microscopes use beams of electrons.	They consist of two sets of lenses of different materials.
<b>Scanning Electron Microscopes</b>	Scanning electron microscopes use beams of electrons.	They consist of two sets of lenses of different materials.
Prokaryotes and Eukaryotes		
<b>Prokaryotes</b>	Prokaryotes are cells that lack a nucleus.	They do not have their genetic material enclosed within a nucleus.
<b>Eukaryotes</b>	Eukaryotes are cells that have a nucleus.	They do have their genetic material enclosed within a nucleus.

# Chapter 7 1 Life Is Cellular Answer Key

**Stewart C. Bushong**



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web objective to apply stoichiometric principles to calculate the appropriate chemical equation for the reaction between iron metal and a solution of copper i sulfate introduction in the form of finely split powder copper metal is produced as a byproduct of the process as iron ions the iron metal dissolves

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