

# 6<sup>th</sup> Grade Study Guide

## Chapter 3 – Cell Processes

### CHEMISTRY OF LIFE Section 1

- Explain how everything is made of atoms; know their parts.
- Define an element, an ion, a mixture, a solution, and a suspension.
- Tell how atoms combine; define compound.
- Delineate between organic and inorganic compounds.
- Identify the four major compounds that make up all living things.

### MOVING CELLULAR MATERIALS Section 2

- Explain selective permeability, diffusion, and osmosis of cell membranes.
- Identify passive and active transport; identify facilitated diffusion.
- Illustrate endocytosis and exocytosis.

### ENERGY FOR LIFE Section 3

- Define metabolism.
- Show the function of enzymes.
- Explain photosynthesis, where it takes place, the materials needed and produced.
- Explain cellular respiration, where it takes place, the materials needed and produced.
- Compare and contrast respiration and fermentation.

