# Chapter 30;Units 1-6

#### Learning Objectives:

* Biology 2 (II.5): Describe the general organization of the animal body and vascular plants.
* Biology 2 (II.7): Compare the structure of nutrient procurement and processing systems in plants and animals.
* Biology 2 (II.8): Describe the structure and function of the nervous system, the musculoskeletal system, the respiratory system, and the mechanisms of internal transport and regulation in various organisms.
* Biology 2 (V.1): Explain how regulatory mechanisms at the level of the whole organism ensure balance in living systems that interact continuously with their environments; compare regulatory mechanisms within and across species.

**Project 1:**

Complete the end of the chapter “Review Questions”. Make sure to answer each question thoroughly and include page numbers from the text where the answers can be found. Be prepared to discuss your answers in a group setting during class.

**Project 2:**

Complete the end of the chapter “Critical Thinking Questions” according to your group number. You will be sharing your responses with members from the other groups during class. (This is a modified “Jigsaw” method. To use this “Jigsaw” have everyone meet in their groups for a specified amount of time. While they are discussing their responses/ideas separate everyone into new groups so that each new group has a representative from the original group. Have the new groups meet for a specified amount of time to share their responses/ideas. This way each person holds a piece of the overall puzzle.)

Group 1: 27-30

Group 2: 31-34

Group 3: 35-38

Group 4: 39-43

**Project 3:**

Divide the class into small groups. Provide each group with a large piece of paper (butcher paper, poster board, etc.). Have each group create a table that compares monocots and dicots from memory. Once finished have the groups check their resources to see if their tables contain any inaccuracies or missing information.

**Project 4:**

Draw and describe the path of a water molecule starting in the soil outside of a root and ending in the atmosphere outside of a leaf.

**Project 5:**

Type a research paper on how our understanding of plant sensory systems and responses have impacted the fields of agriculture and industry.