

Format: 6 multiple choice questions and 5 open ended questions

Concepts to Review:

- Cells (see Homework 7 and 8)
  - Understand the terms *structure* and *function*, as well as how they relate to each other.
  - Know the function (job) of each of the following cell organelles: *cell membrane, nucleus, ribosome, mitochondria, cell wall, chloroplast*.
  - Be able to label a diagram of a plant cell and an animal cell.
  - Know the differences between a plant cell and an animal cell.
  
- Photosynthesis (see Homework 12 and 13)
  - Be able to define the terms *photosynthesis, autotroph, and heterotroph*.
  - Understand the difference between *organic molecules* and *inorganic molecules*.
  - Know which cell organelle photosynthesis takes place in.
  - Be able to write the chemical equation for photosynthesis.
  - Know all the raw materials (reactants) and products of photosynthesis.
  - Know which raw material (reactant) provides all the energy for photosynthesis and know which product all the energy is stored in.
  - Be able to explain how guard cells on leaves help maintain homeostasis in plants.
  
- Respiration (see Homework 14)
  - Be able to define the term *respiration*.
  - Know the molecule that contains a useable form of energy that living things use to carry out the life functions.
  - Know which cell organelle respiration takes place in.
  - Be able to write the chemical equation for respiration.
  - Know all the raw materials (reactants) and products of respiration.
  - Know which raw material (reactant) provides all the energy for respiration and know which product all the energy ends up in.

Practice Quiz Questions:

- Visit the “Practice Exam Questions” page on the course website at [www.spraguescience.com](http://www.spraguescience.com).
- Download the “Photosynthesis and Respiration – Exam” file and try all practice questions.
- Check your work by downloading the answer keys.