**SNC 2D REVIEW – BIOLOGY: Tissues, Organs and Systems of Living Things**

***\*\* Make sure to study ALL your notes and read your textbook. DO NOT simply complete this review as your only source for studying.\*\* ------------- Flashcards! Flashcards! Flashcards! ---------------***

**Chapter 2: Cells, Cell Division and Cell Specialization**

* What are the four phases of the cell cycle?
* In chart form, compare prokaryotic and eukaryotic cells.
* Label the diagrams of plant and animal cells - organelles
* What happens to the chromosomes at each phase?
* What are the three reasons why cells need to divide?
* Define diffusion and osmosis.
* Be able to draw and label diagrams of each stage of mitosis.
* What is cancer and why does it occur?
* How can you reduce your risk of getting cancer? What are carcinogens?
* Know different technologies used to diagnose cancer and treatments for cancer.
* Cancer screening: the ABCD’s of moles. How do you know if you should see a doctor?
* Be able to name and describe some types of specialized cells.

**Textbook Review**: Page 64 #1,2,3,4,6,10,11 Page 66 #1,2,3,4,5,6,10,11

**Chapter 3: Animal Systems**

* What are the levels of organization in living things?
* Name and describe the 4 types of tissues.
* Digestive system: what are the functions of the system? Be able to label a diagram, know the functions of all the structures involved directly and indirectly with food, draw a flow chart to show the path of food as it enters and exits the body.
* Circulatory system: what are the functions of the system? Be able to label a diagram of the heart, describe the heart structure and its special features, know the path of blood as it flows through the body, know some circulatory system disorders.
* Respiratory system: what are the functions of the system? be able to label a diagram of the system, know the functions of all the structures involved, draw a flow chart to show the path of air as its enters the body, know some respiratory disorders.
* How does the diaphragm function in the human body? If it contracts, do we breathe in or out?
* Musculoskeletal system: what is the function of the system? What are the main tissues in the system?
* Nervous System: what is the function of the system? Be able to label a diagram of a neuron, what is the function of the brain?

**Textbook Review:** Page 116 #1,2,3,6,7,16,18 Page 118 #1,2,3,5,6,8,9,10,11,12,13,14,16,17,19