

II. CIRCULATION & RESPIRATION

1. Describe the oxygen levels in the arteries and veins. Are there any exceptions to the generalizations?
2. Explain 3 disorders/diseases associated with the circulatory system.
3. What are the 4 components of whole blood? Describe and give the function of each component.
4. Sketch the heart and lungs. Show all blood vessels, valves and chambers. Use arrows to show directions of blood flow.

5. a) Distinguish between each of the 3 types of blood vessels.

b) Why are arteries thicker?

c) Why do veins have valves?

d) What is the major function of the capillaries?
6. What is the most muscular chamber of the heart? Why?
7. Describe the sequence of events that occurs in order to breathe. Include the action of the diaphragm, rib cage and the change in pressure between the lungs and the outside environment.
8. What is the function of the alveoli?
9. a) What is pneumonia?

b) What is anemia?

c) What is hemophilia?

4. What are rods and cones? Where are they located? What is colorblindness?
5. Describe what happens when light comes into the eye. Be sure to include: retina, optic nerve, iris, pupil, cornea, lens, vitreous humor, and aqueous humor.

IV. PLANT REPRODUCTION AND DEVELOPMENT

1. Draw a seed. Label and explain the parts of a seed including the radicle, epicotyl, hypocotyl, endosperm, seed coat, and embryo.

2. Conifers produce seeds in _____ and angiosperms produce seeds in _____.

