

Grade 8 (Biology)

At the end of grade 8 the student should be able to:

Chapter 5

- Define what an enzyme is.
- Define what enzymes do.
- Analyze how enzymes are affected by temperature and pH.
- Explain why they are affected by temperature and pH.
- Investigate the effects of temperature and pH on enzyme activity.
- Analyze graphs.
- Interpret graphs.
- Analyze experiments
- Draw graphs.

Chapter 8

- tell why large organisms need transport system.
- Tell which substances are transported in animals and plants.
- Tell the structure and function of human circulatory system.
- Compare the different parts of the heart.
- Compare the different types of blood vessels.
- Relate the structure to function.
- Explain the structure and function of blood.
- Describe the structure and function of the Xylem and Phloem.
- Explain transpiration.
- List and explain the factors that affect transpiration.
- Draw graphs about transpiration.
- Analyze graphs.

Chapter 10

- Define what receptors and effectors are.
- Explain how they help to respond to stimuli.
- Tell the structure and function of the nervous system.
- Explain reflex action.
- Draw the path way of reflex arc.
- Draw a neuron and label its parts.
- Draw schematic diagram of the organization of the nervous system.
- List the different types of neurons.
- Compare structurally and functionally the different types of neurons.
- List the functions of some endocrine glands.
- Explain about adrenaline.
- Compare between the nervous system and the endocrine system.
- Analyze text about hormones.
- Define hormones and target cells.
- Explain plant response to stimuli such as light and gravity.