

EIGHTH GRADE: HUMAN BIOLOGY

Life Science Standard: Students will demonstrate an understanding of how living systems function. This includes an understanding of the characteristics, structure, and function of cells, organisms, and living systems.

Benchmarks	Indicators	Teaching Strategies
<p>By the end of the nine week course, the student will be able to:</p> <ul style="list-style-type: none"> • Explain that the basic functions of organisms are carried out in cells and groups of specialized cells form tissues and organs: the combination of these cells make up multicellular organisms that have a variety of body plans and internal structures. • Explain the interconnectedness of the body systems. • Recognize that multicellular organisms have a variety of specialized cells, tissues, organs, and organ systems that perform specialized functions. 	<ul style="list-style-type: none"> • Recognize that many of the basic functions of humans are carried out by or within cells. • Explain that humans have a variety of specialized cells, tissues, organs, and organ systems that perform specialized functions. • Investigate the body plan and internal structures found in humans. • Identify the levels of organization in the human body. • Identify the organizational structure of the human body. • Distinguish among the different types of tissues, organs, and organ systems in the human body. • Identify the various systems of the human body. • Describe the systems of the human body and their function. • List and describe the various disorders and diseases associated with the systems of the human body. 	<ul style="list-style-type: none"> • Compare and contrast the various body systems (digestive, reproductive, endocrine, circulatory, respiratory, nervous, skeletal, muscular) according to: <ol style="list-style-type: none"> a. major organs and their location in the body b. functions of the systems c. diseases of the systems d. effects of alcohol, tobacco, and other drugs on the systems • Identify and analyze behaviors, activities, nutrition that has the most positive effects on overall human health as well as the various body systems.