



Medical Science 7-9 Syllabus

Course Goals

1 Scientific Literacy

Students apply the scientific method to understand diagnoses and treatment plans.

2 Medical Vocabulary

Students use medical terminology.

3 Anatomy and Physiology

Students understand how systems of the body function to achieve a certain goal and recognize when systems are not functioning properly.

4 Immunology and Pathology

Students explain how disease is transmitted, diagnosed, and treated.

5 Laboratory Skills

Students use scientific instruments including microscopes, pipettes, sutures, and scalpels.

Course Topics

1 Introduction to Medical Science and the Human Body

Students learn the basic functions of the human body and are able to use basic medical vocabulary.

2 Musculoskeletal System

Students use games to identify bones and muscles in the body and discover their functions.

3 Nervous System

Students explore brain functions and connect the content to personal experiences and medical diagnoses.

4 Digestive System

Students learn the organs of the digestive system and their function in breaking down food.

5 Sensory System

Students explain sensory phenomena after learning basic functions of the 5 senses.

6 Cardiovascular and Respiratory Systems

Students learn how the heart and lungs work together to support life.

7 Lymphatic System

Students learn how the body identifies and fights off pathogens.

8 Immunology

Students apply their understanding of diseases to consider how disease spreads and is studied on a large scale.

9 Pathology

Students learn how medical tests work and are used to obtain diagnoses and treatment plans.

10 Scientific Method

Students connect their knowledge by testing hypotheses and conducting research.

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