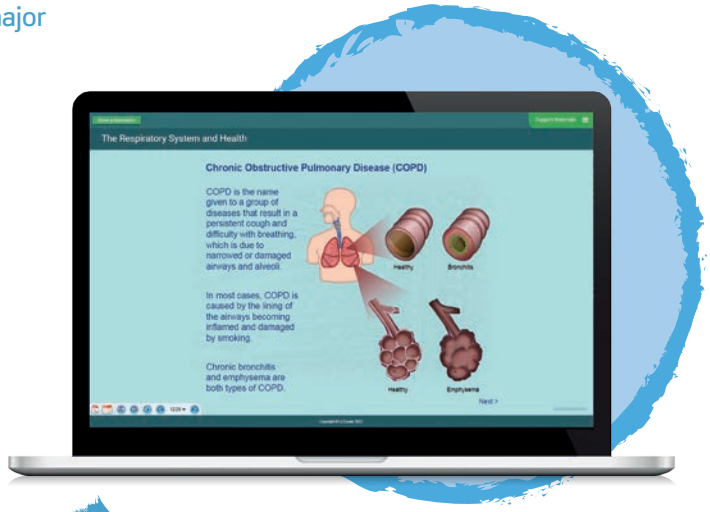
HEALTH AND BIOMEDICAL TECHNOLOGY (40-50 LESSONS)

This course explores the impact of medical advances on society, such as sanitation and vaccination. Students will investigate genetic engineering and medical scanning as examples of biomedical technology. The basic principles of health science, and the major systems of the human body are also covered on this course.



Learning Objectives

- Explore careers in the health sector
- Identify the impact of medical advances such as sanitation and vaccination
- Recognize the principles and application of genetic engineering
- Explore medical scanning technology
- Identify the structure and function of the major systems of the human body
- Explore data logging technology and use it to investigate the circulation system
- Recognize cell types and structure, and use a microscope to explore cells
- Recognize the relationship of genetics and environment to human health
- Identify the structure/function of biomolecules
- Use food tests to determine food content

Typical Careers

Radiation Therapist, Medical Electronics Technician, Medicine, Radiologic Technologist

Lessons

- Introduction - Careers: Health and Biomedical
- Biomedical Technology
- Cells and Microbiology
- Biochemistry
- Human Anatomy and Health

Design Project

- Model Scanner Improvements

Equipment

- Engineering Construction Kit (220-01)
- Biomedical Technology Kit (230-01)
- Human Biology Kit (510-03)
- Datalogging Kit - Complete (520-00)
- Biology Apparatus Kit (510-01)