

Course Syllabus

Gateway: Medical Detectives

Grade Level: 7 & 8

Course Overview

Explore the exciting world of medical science by investigating human body systems, vital signs, diseases, and forensic techniques. Students will develop critical thinking, lab skills, and scientific inquiry through hands-on activities and real-world case studies.

Year at a Glance

Time Frame	Essential Unit of Study	Key Content Topics
Unit 1	Introduction to Medical Detectives	Lab safety, questioning techniques (OLD CARTS), credible sources, medical terminology, body systems overview
Unit 2	Vital Signs and First Aid	Collecting vital signs, interpreting symptoms, vital signs investigations, basic first aid, treatment comparisons
Unit 3	Disease Detectives	Pathogen types, antibiotics/antivirals/antifungals, vaccines, diagnosing infections with patient data
Unit 4	Mysteries of the Human Body	Central nervous system, five senses, brain regions, patient diagnosis, dissections
Unit 5	Outbreak! and Forensics	Food-borne illness outbreaks, attack rate calculations, tracing outbreaks, forensic methods (fingerprinting, chromatography, crime scene investigation)

Learning Objectives

- Apply lab safety and scientific inquiry skills
- Understand human body systems and their functions
- Collect and analyze vital signs for diagnosis
- Differentiate pathogens and treatments
- Investigate diseases and outbreaks using data
- Explore forensic science techniques for solving mysteries

Resources

- Google Classroom (Students will join in class), texts and materials.
- Lab kits for sheep brains and cow eyes.
- First Aid guides and pathogen case studies
- Forensic investigation tools and crime scene simulations

Grading Policy

Grade Weights	• 100% - Assignments & Projects (Projects are chunked into multiple “formative” assignment grades)
What can be retaken?	• All assignments • Missed components of projects must be completed during tutorials
When are tutorials?	• Tuesday, 4:25 - 5:20 pm • Thursday, 4:25 - 5:20 pm
How long do students have to retake items above?	• 5 school days
What is the maximum score on a retake/redo?	• 100% for submitted assignments • 90% for projects/assessments
What has to be done to be eligible for a retake?	• Assignments can be completed and turned in within 5 school days of posting in TAC • Projects/Assessments must be completed during tutorials

What does a retake look like?	• Assignments: complete and contact teacher in writing it has been completed • Assessments: Corrections with explanation for new response • Projects: Communicate with teacher
Is there a cap on how many times something can be redone/retaken?	• Once
Late Work Policy	• 5 school days
Is there any penalty to late work?	• Up to 80%
Grade Codes	• 'M' in the online grade book indicates the assignment has not been completed and turned in to the teacher. • 'Blank' indicates the assignment has been turned in and is in the process of being graded by the teacher. • 'X' indicates the assignment will be exempted from the student's average and will not count against them. • 'O' indicates the assignment scored a zero due to incorrect work, incomplete work, or work not turned in within the allotted time.

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