

Medical Detectives

(Updated May 2020)

ELOs

Lesson 1:

1. Students can collect and interpret vital signs to evaluate patient health.
2. Students can identify and treat infectious disease agents.
3. Students can design and conduct experiments to test the effectiveness of antibiotics on bacteria.
4. Students can analyze medical data to diagnose and treat patients with a mystery illness through questioning and deductive reasoning.

Lesson 2:

5. Students can investigate how the nervous system collects and processes information and initiates the body's response.
6. Students can create neuron models and perform sheep brain dissection.
7. Students can analyze evidence to identify nervous system dysfunctions and create educational resources to help their patient understand the medical condition that is linked to a brain tumor or brain disorder due to damage in the nervous system.

Lesson 3:

8. Describe how a suspected toxin has impacted the health of a patient.
9. Analyze patient symptoms and perform lab analyses of patient samples to identify the culprit and determine how the toxin is spreading.
10. Locate the source of the toxin using a map of the community, patient histories, and lab data, and present findings to help community leaders mitigate the situation.

Essential Questions

1. What can patient signs and symptoms tell us about what's happening in the human body?
2. How do medical detectives investigate their cases?
3. What does effective teamwork look like?
4. How does the nervous system allow our bodies to interact with the outside world?