

DEADLY (AND NOT SO DEADLY) DISEASES

Wednesdays, September 16-December 16

No class October 14 or November 25

11:15am-12:45pm

Ages 11-14

Adventure through history, biology and chemistry to understand the progression of various diseases, conditions and treatment methods that have developed. Students study pathology and physiology through organ dissection, microscope analysis and experimentation.

Instructor: Suzanne Law

Location: STEM Lab (suite 21)

Full Series - \$275 OR \$25/lab

10% off sibling discount

LAB SCHEDULE:

TUBERCULOSIS

Wednesday, September 16

11:15am-12:45pm

Learn about epidemiology and disease transmission, and understand the spread of the sneaky bacteria that causes tuberculosis, *Mycobacterium tuberculosis*.

CATARACTS

Wednesday, September 23

11:15am-12:45pm

Students dissect an eye to better understand how vision works, why cataracts impair sight and locate where they develop inside the eye.

MONO VS STREP

Wednesday, September 30

11:15am-12:45pm

Learn the difference between viruses and bacteria, how different illness can result in similar symptoms, and discuss the dangers of unnecessary antibiotic use.

EBOLA

Wednesday, October 7

11:15am-12:45pm

Explore RNA and how the Ebola virus is transmitted, analyze the response methods used in the 2014 Ebola outbreak and assess the future threat of Ebola.

ACNE

Wednesday, October 21

11:15am-12:45pm

Explore the differences between these skin blemishes, examine epidermal tissue under a microscope, debunk common myths about dilated pores, zits, cysts and blackheads, and watch the work of Dr. Pimple Popper.

MALARIA

Wednesday, October 28

11:15am-12:45pm

Investigate mosquitos under a microscope to understand how they could transmit disease, learn what causes malaria and why only some mosquitos carry *Plasmodium*, the malaria parasite.

KIDNEY FAILURE

Wednesday, November 4

11:15am-12:45pm

Students dissect a kidney as we discuss its structure and function to understand the importance of hydration, kidney disease and when dialysis is needed.

CARDIAC ARREST

Wednesday, November 11

11:15am-12:45pm

Dissect a bovine heart to examine the structure of the chambers, arteries and veins, and analyze the statistics, prevention and differences between these two potentially fatal heart conditions.

INFLUENZA

Wednesday, November 18

11:15am-12:45pm

Why do some people get a flu shot every year? Why is the flu shot more effective some years than others? How is the flu shot developed? This week, we investigate the interaction between antigens and antibodies.

CHOLERA

Wednesday, December 2

11:15am-12:45pm

Let's talk about poop! Actually, let's talk about the importance of safe drinking water and how cholera can rapidly spread. Students design water filtration systems and compare various purification methods.

FEVERS AND CHILLS

Wednesday, December 9

11:15am-12:45pm

What does it mean to say your fever broke? What is the purpose of a fever anyway? Learn about our immune response and examine some of the famous fevers throughout history.

SCURVY

Wednesday, December 16

11:15am-12:45pm

Investigate the symptoms and history of scurvy, and the role vitamin C played in its cure. Students conduct color changing chemical reactions with vitamins that give strength to our immune system.

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