



Curriculum Units by Fellows of the National Initiative
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Antibacterial Gone Viral – Understanding Immune Response in Bacterial and Viral Infectious Diseases

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Antibacterial products have flooded today's market, but few people understand the bacteria and viruses they are killing. Students in Biology and Physiology will learn about microbes through the unit Antibacterial Gone Viral - Understanding Immune Response in Bacterial and Viral Infectious Diseases. Students at MPHS continue to struggle with literacy, thus my unit activities are focused on connecting current CA State Standards for Science and the upcoming Common Core Standards. The trend in education is shifting, and soon students and teachers must adapt and incorporate critical thinking, reading, and writing skills all content areas. My unit teaches students the importance of immune system and basics of bacterial/viral life cycles. Students will engage in activities that will teach them about Influenza, HIV, Tuberculosis, and Influenza, and will inspire them to learn about other bacteria and viruses. Through the course of the unit students will learn about the importance of using antibiotics and antimicrobial products correctly in order to prevent drug resistance. Biology students will create posters reflecting the harm that overuse can cause and post them throughout our campus. Physiology students will integrate both science and english skills by creating stories that will showcase their understanding of the immune system, bacterial/viral life cycle, and antibiotic/antiviral misuse. In the end, all students will utilize a variety of media to present their stories thus giving them flexibility and creative control.

(Developed for Science/Physiology, grades 11-12; recommended Science/Biology, grades 9-12, and Physiology, grades 11-12)

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