Menacing Microbes

Duration: 2 weeks (8-10 instructional hours)

Driving Question: How does a community get ready for an outbreak?

Lesson 1: There’s an Outbreak!
How do diseases spread?

Activity 1: Getting Sick: How Diseases Spread
(50 mins)

Activity 2: Investigating Infectious Diseases
(50 mins)

Activity 3: Analyzing Disease Outbreaks
(50 mins)

Activity 4: Mapping the Spread of Disease in a Community
(50 mins)

Lesson 2: Controlling the Contagion: Proactive and Reactive Responses to an Outbreak
How can we prevent the spread of disease?

Activity 1: Reactive Policies and Practices for Disease Control
(50 mins)

Activity 2: Proactive Policies and Practices for Disease Control and Prevention
(50 mins)

(50 mins)

Lesson 3: Staying Healthy
How can we plan to stay healthy in the future?

Activity 1: Creating an Action Plan to Prepare for an Outbreak
(50 mins)

Activity 2: Mobilizing an Action Plan for an Outbreak
(50 mins)

Activity 3: Everyday Actions to Prevent the Spread of Disease
(50 mins)

Project-Based Learning Unit Product
Students take on the roles of epidemiologists and public health officials to develop and mobilize community action plans to respond to outbreaks of specific infectious diseases. As a culminating product, they create infographics about vaccination and handwashing with the goal of educating people about public health measures to prevent future outbreaks.