# **Misunderstood Microbes**

**Duration:** 2.5 weeks (13 instructional hours)

Driving Question: Which microbes should we protect or eradicate to keep our bodies healthy?

## Lesson 1:

### **Getting Organized**

What are microbes? How is the human body organized into systems?

## **Activity 1:**

Introduction to Microbes and Human Body Systems (60 mins)

### **Activity 2:**

Microbes Across the Tree of Life (60 mins)

#### **Activity 3:**

The Interconnected Systems of the Human Body (60 mins)

## Activity 4:

Deep Dive into the Cell (60 mins)

# Lesson 2:

#### Microbes in and on Humans

How do microbes interact with human body systems?

#### **Activity 1:**

Helpful Microbess (60 mins)

## **Activity 2:**

Harmful Microbes (120 mins)

## Activity 3:

Microbe Eradication Complications (60 mins)

## Lesson 3:

#### Introduce a Microbe to the World!

Is eradication a good solution for your microbe?

#### **Activity 1:**

Research a Microbe and Develop and Argument about its Eradication (120 mins)

#### **Activity 2:**

Create a Microbe PSA (120 mins)

#### **Activity 3:**

Misunderstood Microbes PSA Presentations (60 mins)

# **Project-Based Learning Unit Product**

Students take on the role of microbiologists to create a public service announcement (PSA) that will inform their community about the biology, risks, and possible benefits of a specific microbe.



