



Team-Based Challenge – Community Model

PROJECT OVERVIEW	
Team-Based Challenge Title	Disease Detectives
Source	Science Olympiad (soinc.org)
Industry Partner	Centers for Disease Control and Prevention (CDC)
Endorsement Area	Health Sciences and Technology
Problem to Investigate/Scope	Teams will analyze a health outbreak, using public health and epidemiological lenses, analyze and evaluate data on the outbreak, and suggest mitigation efforts to slow and stop the spread of the outbreak. Resources: Example outbreaks and sample tests can be found on the CDC Science Olympiad webpage here .
Project Outcomes	Students will use their investigative skills in the scientific study of disease, injury, health, and disability in populations or groups of people.

PROJECT OUTLINE

Stage:	Topics/Events:	Timeline:	Deliverables:
Preparation	<ul style="list-style-type: none"> - Set Expectations - Skill Development 	Week 1-2	<p>Complete the MY SO Epidemiology Lesson plan (you must fill out the form first) and slide deck to build an understanding of public health and epidemiology.</p> <p>Watch the STEM Session on Epidemiology to better understand college and career pathways in epidemiology.</p>
Project Plan	<ul style="list-style-type: none"> - Analyze and evaluate data on a health outbreak example - Develop an approach to addressing health outbreaks 	Weeks 3-5	<p>Use the example outbreaks described in the National and/or Regional Event Exercises on this page to build an understanding of the way that epidemiologists approach health outbreaks.</p> <p>Take notes, study graphs, do background research on the disease to better understand how it is transmitted and how it affects people in different populations.</p>
Project Execution	<ul style="list-style-type: none"> - Develop suggested mitigation factors 	Weeks 6-8	<p>Develop a plan to mitigate the effects of the outbreak, focusing on underserved and vulnerable populations, based on the skills and knowledge developed in previous weeks.</p>
Project Presentation	<ul style="list-style-type: none"> - Develop presentation 	Weeks 8-10	<p>Develop a presentation for health care professionals and/or members of the public that summarizes the outbreak and makes tangible recommendations for slowing and stopping the spread of future outbreaks that are similar in nature.</p>

This resource was created by [Education Systems Center at Northern Illinois University](#).

The Illinois Work-Based Learning Innovation Network (I-WIN) is designed to help employers, educators, and students leverage innovative models for scaling high-quality work-based learning opportunities in school districts and community colleges across the State. This network explores ways to create equitable opportunities for students through both in-person and virtual learning. For more information on I-WIN and additional work-based learning resources, visit edsystemsniu.org/i-win/.

To access a resource bank of Team-Based Challenge templates, visit edsystemsniu.org/i-win-resources/.