



Zoonotic Disease Transmission Mystery 9th-12th Classroom Program

Program Summary

Students learn about diseases spread by animals and take on the role of epidemiologists to find the source of a mystery disease outbreak. Students visit stations to collect data and clues about patients, the local community, the local wildlife, and public activities to determine what the disease is, where patients came into contact with the pathogen, and what animal is transmitting the pathogen. Students write a report and make recommendations for how to prevent the spread of the disease.

Phenomenon

Diseases spread between humans and animals and can be traced back to a source.

Next Generation Science Standards

Science & Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
Asking Questions and Defining Problems Planning and Carrying Out Investigations Analyzing and Interpreting Data Constructing Explanations and Designing Solutions Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information	LS2.C Ecosystem Dynamics, Functioning, & Resilience LS4.D Biodiversity and Humans	Cause and Effect Scale, Proportion and Quantity

Common Core State Standards

CCSS.ELA-LITERACY.RH.9-10.7 and CCSS.ELA-LITERACY.RH.11-12.7

Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, as well as in words) in order to address a question or solve a problem.

CCSS.ELA-LITERACY.RST.9-10.3 and CCSS.ELA-LITERACY.RST.11-12.3

Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.

CCSS.ELA-LITERACY.RST.11-12.7

Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.

CCSS.ELA-LITERACY.RST.11-12.9

Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.

CCSS.ELA-LITERACY.RST.9-10.10 and CCSS.ELA-LITERACY.RST.11-12.10

By the end of grade, read and comprehend science/technical texts in the appropriate grade level text complexity band independently and proficiently.