



Zoonotic Disease Transmission Mystery
9th-12th Classroom Program

Overview

Students learn that pathogens causes diseases and can move between animal and human populations in a variety of ways. Students play the role of public health scientists and are tasked with identifying the pathogen making people ill and determining the source of this outbreak. Students will read, gather data, and think critically about the clues they have collected and write a report to city officials detailing their results. Students will be asked to consider the likelihood of future outbreaks of zoonotic diseases and brainstorm solutions to mitigate this problem.

Phenomenon

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

Next Generation Science Standards

Asombro lessons are aligned with the three-dimensional learning model of the 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, and Resilience LS4.D Biodiversity and Humans	Cause and Effect Scale, Proportion and Quantity

Common Core State Standards

English Language Arts

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.