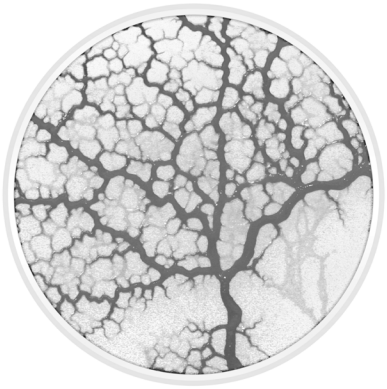
AMAZING BUGS®

Oozing Slime for Fourth-grade Classrooms



Performance Standards Summary

Activities in the Amazing Bugs Oozing Slime kit help students achieve the following performance standards at the fourth-grade level.

SCIENCE

Scientific Thinking and Practice

- Use instruments to perform investigations and communicate findings.
- Differentiate observation from interpretation and understand that a scientific explanation comes in part from what is observed and in part from how the observation is interpreted.
- Conduct multiple trials to test a prediction, draw logical conclusions, and construct and interpret graphs from measurements.
- Collect data in an investigation using multiple techniques, including control groups, and analyze those data to determine what other investigations could be conducted to validate findings.
- Communicate ideas and present findings about scientific investigations that are open to critique from others.
- Describe how scientific investigations may differ from one another (e.g., observations of nature, measurements of things changing over time).
- Understand how data are used to explain how a simple system functions.
- Conduct multiple trials using simple mathematical techniques to make and test predictions.

Life Science

- Explain that different living organisms have distinctive structures and body systems that serve specific functions (e.g., walking, flying swimming).
- Know that humans and other living things have senses to help them detect stimuli, and that sensations (e.g., hunger) and stimuli (e.g., changes in the environment) influence the behavior of organisms.
- Describe the components of and relationships among organisms in a food chain.
- Describe how all living things are made up of smaller units that are called cells.
- Know that in any particular environment some kinds of plants and animals survive well, some survive less well, and others cannot survive at all.
- Know that a change in physical structure or behavior can improve an organism's chance of survival.

MATH

Geometry

- Describe location and movement using common language and geometric vocabulary.
- Use a variety of methods for measuring distances between locations on a grid.

MATH *continued*

Measurement

- Estimate, measure, and solve problems involving length, area....

Data Analysis and Probability

- Compare and describe related data sets.
- Use data analysis to make reasonable inferences/predictions and to develop convincing arguments from data described in a variety of formats (e.g., ...charts, tables... pictographs).
- Propose and justify conclusions and predictions based on data.
- Develop convincing arguments from data displayed in a variety of formats.
- Describe events as "likely," "unlikely," or "impossible"....

LANGUAGE ARTS

Reading and Listening for Comprehension

- Increase vocabulary through reading, listening, and interacting.
- Demonstrate deductive and inductive reasoning by drawing logical conclusions.

Writing and Speaking for Expression

- Use language to present information and ideas clearly and concisely...solve problems, make decisions.
- Answer open-ended questions.

Source: *Reference Guide: New Mexico Content Standards, Benchmarks, and Performance Standards, Grades K–8,* Center for the Education and Study of Diverse Populations at New Mexico Highlands University, 2005.