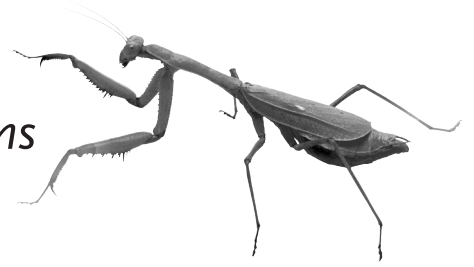


AMAZING BUGS®

Praying Mantis for Third-grade Classrooms



Performance Standards Summary

Activities in the Amazing Bugs Praying Mantis kit help students achieve the following performance standards at the third-grade level.

SCIENCE

Scientific Thinking and Practice

- Recognize the difference between data and opinion.
- Use numerical data in describing and comparing objects, events, and measurements.
- Use a variety of methods to display data and present findings.
- Understand that predictions are based on observations, measurements, and cause-and-effect relationships.
- Use numerical data in describing and comparing objects, events, and measurements.

- Pose a question of interest and present observations and measurements with accuracy.
- Use various methods to display data and present findings and communicate results in accurate mathematical language.

Life Science

- Know that an adaptation in physical structure or behavior can improve an organism's chance for survival.
 - Observe that plants and animals have structures that serve different functions.
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MATH

Numbers and Operation

- Demonstrate reasonable estimation strategies for measurement, computation, and problem solving.

Measurement units, techniques and tools

- Demonstrate understanding that measurements are approximations, investigate differences in units and their effect on precision, and consider the degree of accuracy for different situations.

Data collection, organization and analysis

- Collect and organize data using observations, measurements, surveys, or experiments.
- Represent data using tables....
- Conduct simple experiments by determining the number of possible outcomes and make simple predictions.
 - Identify whether events are certain, likely, unlikely, or impossible.
 - Record the outcomes for a simple event and keep track of repetitions.

MATH *continued*

- Summarize and record the results in a clear and organized way.
- Use the results to predict future events.
- Apply and explain the uses of sampling techniques (e.g., observations...tally marks) for gathering data.
- Analyze data displayed in a variety of formats to make reasonable inferences and predictions, answer questions, and make decisions.
- Discuss the degree of likelihood of events and use terminology such as “certain,” “likely,” “unlikely.”
- Predict the outcomes of simple experiments and test the predictions using concrete objects.
- Record the probability of a specific outcome for a simple probability situation.

LANGUAGE ARTS

Reading and Listening for Comprehension

- Summarize main ideas from written or spoken text succinctly.
- Increase vocabulary through reading, listening, and interacting.
- Draw conclusions, make generalizations, gather support by referencing the text.

Writing and Speaking for Expression

- Present information in a logical manner with a clear main point.
- 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.