

# AMAZING BUGS®

## *Hornworms for Third-grade Classrooms*



### **Performance Standards Summary**

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

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#### **SCIENCE**

##### **Scientific Thinking and Practice**

- Recognize the difference between data and opinion.
- Use numerical data in describing and comparing objects, events, and measurements.
- Collect data in an investigation and analyze those data.
- 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**

- Observe that plants and animals have structures that serve different functions.
  - Identify how living things cause changes to the environments in which they live, and that some of these changes are detrimental to the organism and some are beneficial.
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#### **MATH**

##### **Number and Operations**

- Demonstrate an understanding of fractions as parts of unit wholes....

##### **Measurement**

- Demonstrate understanding of the need for measuring with standard units and become familiar with standard units in the U.S. customary system.
- Choose and use the appropriate units and measurement tools to quantify the properties of objects.

- Identify and use time intervals.
- Identify properties and select the appropriate type of unit for measuring each property.
- Demonstrate understanding that measurements are approximations, investigate differences in units and their effect on precision, and consider the degree of accuracy for different situations.
- Use appropriate standard units and tools to estimate, measure, and solve problems.

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## **MATH** *continued*

### **Data Analysis and Probability**

- Collect and organize data using observations, measurements, surveys, or experiments.
- Represent data using tables and graphs (e.g., line plots, bar graphs, and line graphs).

- Apply and explain the uses of sampling techniques (e.g., observations, polls, tally marks) for gathering data.

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## **LANGUAGE ARTS**

### **Reading and Listening for Comprehension**

- Increase vocabulary through reading, listening, interacting.
- Select an appropriate format to locate, gather, access, record, organize, and present information.
- Locate information using diagrams, charts, and graphs.

### **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.