

# AMAZING BUGS®

## *Harvester Ant for First-grade Classrooms*



### **Performance Standards Summary**

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

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## **SCIENCE**

### **Scientific Thinking and Practice**

- Make observations, develop simple questions, and make comparisons of familiar situations.
- Describe relationships between objects.
- Know that simple investigations do not always turn out as planned.
- Use numbers and mathematical language to describe phenomena.

### **Life Science**

- Know that living organisms have needs.
- Know that living organisms inhabit various environments and have various external features to help them satisfy their needs.
- Observe that living organisms have predictable but varied life cycles.
- Identify differences between living and nonliving things.
- Recognize the differences between mature and immature plants and animals.
- Describe simple body functions.

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## **MATH**

### **Number and Operations**

- Count with understanding and recognize “how many” in sets of objects up to 50.
- Connect number words and numbers to the quantities they represent.
- Solve addition and subtraction problems with one- and two-digit numbers.
- Given simple story problems, explain verbally how to select and use appropriate operations.
- Perform addition and subtraction with whole number combinations.
- Use and explain estimation strategies to determine the reasonableness of answers involving addition and subtraction.

### **Geometry (Concepts and Applications)**

- Participate in group and individual activities based on the concepts of space and location.
  - Describe directions, locations, space, and shape.
  - Visualize, describe, and record directions for navigating from one location to another to develop the vocabulary needed to describe directions, location, and representation.
  - Use materials to create representations of the surrounding environment.
  - Develop estimates and measure distances using nonstandard measurements.

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## **MATH** *continued*

### **Data Analysis and Probability (Representation and Comparison)**

- Collect, organize, represent, and compare data by category on graphs and charts to answer simple questions.
  - Gather data by interviewing, surveying, and making observations.
  - Organize data into appropriate categories by sorting based on shared properties.
  - Participate in discussions about selecting an appropriate way to display the data.
  - Represent data using objects, pictures, tables, and simple bar graphs.
- Analyze simple data.
  - Interpret what the graph or other representation shows.
  - Determine whether or not the data gathered helps answer the specific question that was posed.
  - Compare parts of the data to make statements about the data as a whole.
- Make conclusions based on data.
- Discuss the likelihood of events.
- Observe, explore, and discuss whether some events occur more often than the others.

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## **LANGUAGE ARTS**

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

- Follow simple written and oral instructions.
- Classify words into grade-appropriate categories (e.g. animals, foods).
- Increase vocabulary through reading, listening, interacting.

Sources: (1) *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. (2) “1st GRADE Standards Alignment MAP (SAM): Standards Associated with the SBPR topic lines,” Albuquerque Public Schools, 2007.