



# All About Penguins

## Ohio Academic Standards (Early Childhood)

Below is a list of Ohio Academic Standards discussed during the teaching of **All About Penguins**.

### English Language Arts

**Standard: Communication: Oral and Visual for Early Childhood**

1. Attend to speakers, stories, poems and songs.
2. Connect information and events to personal experiences by sharing or commenting.
3. Follow simple oral directions.
4. Speak clearly and understandably to express ideas, feelings and needs.

### Mathematics

**Standard: Measurement for Early Childhood**

4. Begin to use terms to compare the attributes of objects (e.g., bigger, smaller, lighter, heavier, taller, shorter, more and less).

### Science

**Standard: Life Science for Early Childhood**

1. Identify common needs (e.g., food, air, water) of familiar living things.
3. Observe and begin to recognize that ways that environments support life by meeting the unique needs of each organism (e.g., plant/soil, birds/air, fish/water).
4. Match familiar adult family members, plants and animals with their young (e.g., horse/colt, cow/calf).
5. Recognize physical differences among the same class of people, plants or animals (e.g., dogs come in many sizes and colors).



### **Scientific Inquiry for Early Childhood**

1. Ask questions about objects, organisms and events in their environment during shared stories, conversations and play (e.g., ask about how worms eat).
2. Show interest in investigating unfamiliar objects, organisms and phenomena during shared stories, conversations and play (e.g., "Where does hail come from?").
4. Investigate the natural laws acting upon objects, events and organisms (e.g., repeatedly dropping objects to observe the laws of gravity, observing the life cycle of insects).
5. Use one or more sense to observe and learn about objects, organisms and phenomena for a purpose (e.g., to record, classify, compare, talk about).
6. Explore objects, organisms and events using simple equipment (e.g., magnets and magnifiers, standard and nonstandard measuring tools).
7. Begin to make comparisons between objects or organisms based on their characteristics (e.g., animals with four legs, smooth and rough rocks).
8. Record or represent and communicate observations and findings through a variety of methods (e.g., pictures, words, graphs, dramatizations) with assistance.

### **Scientific Ways of Knowing for Early Childhood**

1. Offer ideas and explanations (through drawings, emergent writing, conversation, movement) of objects, organisms and phenomena, which may be correct or incorrect.
2. Recognize the difference between helpful and harmful actions toward living things (e.g., watering or not watering plant).

### **Social Studies**

#### **Standard: Geography for Early Childhood**

3. Demonstrate how maps can be useful to finding places (e.g., streets, homes, places to visit).