



Grade 1

3.1.1.B Life Science: From Molecules to Organisms: Structures and Processes

Students who demonstrate understanding can *read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.*

Clarifying Statement: Examples of patterns of behaviors could include the signals that offspring make (such as crying, cheeping, and other vocalizations) and the responses of the parents (such as feeding, comforting, and protecting the offspring).

Assessment Boundary: N/A

Science and Engineering Practices (SEP)	Disciplinary Core Ideas (DCI)	Crosscutting Concepts (CCC)
<p>Obtaining, Evaluating, and Communicating Information</p> <p>Obtaining, evaluating, and communicating information in K–2 builds on prior experiences and uses observations and texts to communicate new information.</p> <ul style="list-style-type: none"> Read grade-appropriate texts and/or use media to obtain scientific information to describe patterns in the natural world. <hr/> <p>Connections to Nature of Science</p> <p>Scientific Knowledge is Based on Empirical Evidence</p> <ul style="list-style-type: none"> Scientists look for patterns and order when making observations about the world. 	<p>Growth and Development of Organisms</p> <ul style="list-style-type: none"> Adult plants and animals can have young. In many kinds of animals, parents and the offspring themselves engage in behaviors that help the offspring to survive. 	<p>Patterns</p> <ul style="list-style-type: none"> Patterns in the natural and human designed world can be observed, used to describe phenomena, and used as evidence.

Pennsylvania Context: Examples of Pennsylvania context include Pennsylvania flora and fauna.

PA Career Ready Skills: Explain ways to establish relationships that are positive and supportive of others.

Connections to Other Standards Content and Practices

Standard Source	Possible Connections to Other Standard(s) or Practice(s)
Agriculture (AFNR)	CS.02.02.01.a: Identify and summarize the components within AFNR systems (e.g., Animal Systems: health, nutrition, genetics, etc.; Natural Resources Systems: soil, water, etc.).
Science, Environmental Literacy and Sustainability (NAEE)	K-4 Strand 1.C. Collecting information: Learners locate and collect information about the environment and environmental topics.



Standard Source	Possible Connections to Other Standard(s) or Practice(s)
PA Core Standards: ELA	CC.1.2.1.A: Identify the main idea and retell key details of text. CC.1.2.1.B: Ask and answer questions about key details in a text. CC.1.2.1.L: Read and comprehend literary non-fiction and informational text on grade level, reading independently and proficiently. CC.1.4.1.V: Participate in individual or shared research and writing projects.
PA Core Standards and Practices: Math	MP.2: Reason abstractly and quantitatively. CC.2.1.1.B.2: Use place value concepts to represent amounts of tens and ones and to compare two digit numbers. CC.2.4.1.A.4: Represent and interpret data using tables/charts.
PA Standards: Social Studies	8.3.1.D: Identify conflict and describe ways to cooperate with others by making smart choices.
Educational Technology (ISTE)	1.3. Knowledge Constructor: Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.
Technology and Engineering (ITEEA)	STEL-3A: Apply concepts and skills from technology and engineering activities that reinforce concepts and skills across multiple content areas.