# K-LS1 From Molecules to Organisms: Structures and Processes

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the requirement of plants to have light; and, that all living things need water.]

Students who demonstrate understanding can:

K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive. [Clarification Statement: Examples of patterns could include that animals need to take in food but plants do not; the different kinds of food needed by different types of animals;

The performance expectations above were developed using the following elements from the NRC document A Framework for K-12 Science Education:

and light to live and grow. (K-LS1-1)

LS1.C: Organization for Matter and Energy Flow in

All animals need food in order to live and grow. They obtain

their food from plants or from other animals. Plants need water

## **Science and Engineering Practices**

#### **Analyzing and Interpreting Data**

Analyzing data in K-2 builds on prior experiences and progresses to collecting, recording, and sharing observations.

Use observations (firsthand or from media) to describe patterns in the natural world in order to answer scientific questions. (K-LS1-1)

#### Connections to Nature of Science

### Scientific Knowledge is Based on Empirical Evidence

Scientists look for patterns and order when making observations about the world. (K-LS1-1)

Connections to other DCIs in kindergarten: N/A

Articulation of DCIs across grade-levels: 1.LS1.A (K-LS1-1); 2.LS2.A (K-LS1-1); 3.LS2.C (K-LS1-1); 3.LS4.B (K-LS1-1); 5.LS1.C (K-LS1-1); 5.LS2.A (K-LS1-1)

Common Core State Standards Connections:

ELA/Literacy

Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them). (K-LS1-1) W.K.7 Mathematics -

K.MD.A.2 Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference. (K-LS1-1)

#### **Patterns**

Patterns in the natural and human designed world can be observed and used as evidence. (K-LS1-1)