

DCI: Ecosystems: Interactions, Energy, and Dynamics

2.LS2.A: Interdependent Relationships in Ecosystems

Plants depend on water and light to grow. (2-LS2-1)

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2.LS2.A: Interdependent Relationships in Ecosystems

Plants depend on animals for pollination or to move their seeds around. (2-LS2-2)

DCI: Ecosystems: Interactions, Energy, and Dynamics

2.ETS1.B: Developing Possible Solutions

Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people. (2-LS2-2)

Performance Expectation

2-LS2-1: Plan and conduct an investigation to determine if plants need sunlight and water to grow.

Clarification Statement: none

Assessment Boundary: Assessment is limited to testing one variable at a time.

Performance Expectation

2-LS2-2: Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.

Clarification Statement: none

Assessment Boundary: none

Science and Engineering Practice

Developing and Using Models

Modeling in K–2 builds on prior experiences and progresses to include using and developing models (i.e., diagram, drawing, physical replica, diorama, dramatization, or storyboard) that represent concrete events or design solutions.

Develop a simple model based on evidence to represent a proposed object or tool. (2-LS2-2)

Science and Engineering Practice

Planning and Carrying Out Investigations

Planning and carrying out investigations to answer questions or test solutions to problems in K–2 builds on prior experiences and progresses to simple investigations, based on fair tests, which provide data to support explanations or design solutions.

Plan and conduct an investigation collaboratively to produce data to serve as the basis for evidence to answer a question. (2-LS2-1)

Crosscutting Concept

Cause and Effect

Events have causes that generate observable patterns. (2-LS2-1)

Crosscutting Concept

Structure and Function

The shape and stability of structures of natural and designed objects are related to their function(s). (2-LS2-2)

Common Core State Standards for ELA/Literacy

Speaking & Listening

SL.2.5 - Presentation of Knowledge and Ideas

Create audio recordings of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, and feelings. (2-LS2-2)

Common Core State Standards for ELA/Literacy

Card Type name

W.2.7 - Research to Build and Present Knowledge

Participate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations). (2-LS2-1)

Common Core State Standards for ELA/Literacy

Card Type name

W.2.8 - Research to Build and Present Knowledge

Recall information from experiences or gather information from provided sources to answer a question. (2-LS2-1)

Common Core State Standards for Mathematics

Measurement & Data

2.MD.D.10 - Represent and interpret data.

Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph. (2-LS2-2)

Common Core State Standards for Mathematics

Mathematical Practices

MP.2 - Reason abstractly and quantitatively

CCSS text (2-LS2-1)

Common Core State Standards for Mathematics

Mathematical Practices

MP.4 - Model with mathematics

CCSS text (2-LS2-1), (2-LS2-2)

Common Core State Standards for Mathematics

Mathematical Practices

MP.5 - Use appropriate tools strategically

CCSS text (2-LS2-1)