DCI: Earth's Systems

K.ESS2.D: Weather and Climate

Weather is the combination of sunlight, wind, snow or rain, and temperature in a particular region at a particular time. People measure these conditions to describe and record the weather and to notice patterns over time. (K-ESS2-1)

DCI: Earth's Systems

K.ESS2.E: Biogeology

Plants and animals can change their environment. (K-ESS2-2)

Performance Expectation

K-ESS2-1: Use and share observations of local weather conditions to describe patterns over time.

Clarification Statement: Examples of qualitative observations could include descriptions of the weather (such as sunny, cloudy, rainy, and warm); examples of quantitative observations could include numbers of sunny, windy, and rainy days in a month. Examples of patterns could include that it is usually cooler in the morning than in the afternoon and the number of sunny days versus cloudy days in different months.
Assessment Boundary: Assessment of quantitative observations limited to whole numbers and relative measures such as warmer/cooler.

Performance Expectation

K-ESS2-2: Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.

Clarification Statement: Examples of plants and animals changing their environment could include a squirrel digs in the ground to hide its food and tree roots can break concrete.
Assessment Boundary: none

Science and Engineering Practice

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-ESS2-1)

Science and Engineering Practice

Engaging in Argument from Evidence

Engaging in argument from evidence in K–2 builds on prior experiences and progresses to comparing ideas and representations about the natural and designed world(s).

Construct an argument with evidence to support a claim. (K-ESS2-2)

Crosscutting Concept

Patterns

Patterns in the natural and human designed world can be observed, used to describe phenomena, and used as evidence. (K-ESS2-1)

Crosscutting Concept

Systems and System Models

Systems in the natural and designed world have parts that work together. (K-ESS2-2)

Connection to Nature of Science

Science Knowledge Is Based on Empirical Evidence

Scientists look for patterns and order when making observations about the world. (K-ESS2-1)

Common Core State Standards for ELA/Literacy

Reading Informational Text

RI.K.1 - Key Ideas and Details

With prompting and support, ask and answer questions about key details in a text. (K-ESS2-2)

Common Core State Standards for ELA/Literacy

Card Type name

W.K.1 - Text Types and Purposes

Use a combination of drawing, dictating, and writing to compose opinion pieces in which they tell a reader the topic or the name of the book they are writing about and state an opinion or preference about the topic or book. (K-ESS2-2)

Common Core State Standards for ELA/Literacy

Card Type name

W.K.2 - Text Types and Purposes

Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic. (K-ESS2-2)

Common Core State Standards for ELA/Literacy

Card Type name

W.K.7 - Research to Build and Present Knowledge

Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them). (K-ESS2-1)

Common Core State Standards for Mathematics

Counting & Cardinality

K.CC.A - Know number names and the count sequence.

Know number names and the count sequence. (K-ESS2-1)

Common Core State Standards for Mathematics

Measurement & Data

K.MD.A.1 - Describe and compare measurable attributes.

Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object. (K-ESS2-1)

Common Core State Standards for Mathematics

Measurement & Data

K.MD.B.3 - Classify objects and count the number of objects in each category.

Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. (K-ESS2-1)

Common Core State Standards for Mathematics

Mathematical Practices

MP.2 - Reason abstractly and quantitatively

CCSS text (K-ESS2-1)

Common Core State Standards for Mathematics

Mathematical Practices

MP.4 - Model with mathematics

CCSS text (K-ESS2-1)