Performance Expectations Forces and Interactions: Pushes and Pulls

Plan and conduct an investigation to compare the effects of different strengths or directions of pushes and pulls on the motion of an object. K-PS2-1

- **MATH** Reason abstractly and quantitatively. MP.2
- **MATH** Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object. K.MD.A.1
- **MATH** 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.MD.A.2
- **LITERACY** Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them). W.K.7

Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull. K-PS2-2

- **LITERACY** With prompting and support, ask and answer questions about key details in a text. RI.K.1
- **LITERACY** Ask and answer questions in order to seek help, get information, or clarify something that is not understood. SL.K.3

Performance Expectations Interdependent Relationships in Ecosystems: Animals, Plants & Their Environment

Use observations to describe patterns of what plants and animals (including humans) need to survive. K-LS1-1

- **MATH** 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.MD.A.2
- **LITERACY** Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them). W.K.7

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

- **LITERACY** 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. W.K.2
- **LITERACY** With prompting and support, ask and answer questions about key details in a text. RI.K.1
- **LITERACY** 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. W.K.1

Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. K-ESS3-1

- **MATH** Reason abstractly and quantitatively. MP.2
- **MATH** Model with mathematics. MP.4
- **MATH** Counting and Cardinality. K.CC
- **LITERACY** Add drawings or other visual displays to descriptions as desired to provide additional detail. SL.K.5

Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. K-ESS3-3

- **LITERACY** 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. W.K.2
- **LITERACY** Ask and answer questions in order to seek help, get information, or clarify something that is not understood. SL.K.3

Math Standard Connections = Magenta
English Language Arts (ELA) Literacy Standard Connections = Teal
Performance Expectations Weather and Climate

Make observations to determine the effect of sunlight on Earth's surface. K-PS3-1
• MATH 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.MD.A.2
• LITERACY Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them). W.K.7

Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area. K-PS3-2
• MATH 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.MD.A.2
• LITERACY Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them). W.K.7

Use and share observations of local weather conditions to describe patterns over time. K-ESS2-1
• MATH Reason abstractly and quantitatively. MP.2
• MATH Model with mathematics. MP.4
• MATH Know number names and the count sequence. K.CC.A
• MATH Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object. K.MD.A.1
• MATH Classify objects into given categories; count the number of objects in each category and sort the categories by count. K.MD.B.3
• LITERACY Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them). W.K.7

Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. K-ESS3-2
• MATH Model with mathematics. MP.4
• MATH Counting and Cardinality. K.CC
• LITERACY With prompting and support, ask and answer questions about key details in a text. RI.K.1