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TeachEngineering invites you to propose an original, hands-on Kindergarten activity that aligns to specific engineering-focused NGSS Performance Expectations. Your creative STEM activity could enrich our free engineering collection that reaches over 3.5 million educators annually. We look forward to your imaginative ideas! You can even get creative and submit more than one proposal. Go to teachengr.link/k2proposal for proposal submission guidelines, schedule, and compensation details.

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**

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**