



# National Standards Alignment for 79810 Sidewalk Safety Exploration

## Next Generation Science Standards

### Motion and Stability: Forces and Interactions

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

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

### Engineering Design

**K-2-ETS-1-1.** Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.

**K-2-ETS1-2.** Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.

**K-2-ETS1-3.** Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.

### Science and Engineering Practices

**Practice 3:** Planning and Carrying Out Investigations

**Practice 4:** Analyzing and Interpreting Data

**Practice 6:** Constructing Explanations and Designing Solutions

## CCSS Mathematics

### Counting & Cardinality

**K.CC.B. 5** Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1–20, count out that many objects.

### Measurement & Data

**K.MD.A.1** Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.

**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. For example, directly compare the heights of two children and describe one child as taller/shorter.

## Standards for Mathematical Practice

**MP2** Reason abstractly and quantitatively.

**MP3** Construct viable arguments and critique the reasoning of others.

**MP4** Model with mathematics.

**MP7** Look for and make use of structure.

## CCSS English Language Arts

### Reading: Literature

**RL.K.7** With prompting and support, describe the relationship between illustrations and the story in which they appear (e.g., what moment in a story an illustration depicts).

### Writing

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

### Speaking & Listening

**SLK.1** Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and large groups.

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