



---

# Park Hill School District

---

Building Successful Futures • Each Student • Every Day

## **Summer School: K-2 Design Challenge Curriculum**

### **Scope and Sequence:**

<b>Timeframe</b>	<b>Unit</b>	<b>Instructional Topics</b>
12 Days	Summer School K-2 Design Challenge	Topic 1: Design Challenge

## Summer School K-2 Design Challenge

**Subject:** Design Challenge

**Grade:** K-2 Summer School

**Name of Unit:** Design Challenge

**Length of Unit:** 12 Days

**Overview of Unit:**

This unit will be broken into 6, two-day challenges. On the first day of each challenge, the teacher will begin by reading a story to students. After reading the story to students, the teacher proposes a problem-based challenge to the class related to the story, and students spend the rest of the day brainstorming and designing solutions to the problem. On the second day of each increment, students actually build and test their solution to the problem. This then repeats with five more stories.

**Resources For the Unit:**

A Google Site has been created to house all of the necessary resources for this unit. That can be accessed by clicking [here](#).

**Essential Questions:**

1. How can I be creative to solve a problem?

**Enduring Understanding/Big Ideas:**

1. I can learn to use creativity to solve a problem
2. I can brainstorm, prototype, and persevere through a challenge.

## Topic 1: Design Challenge

### **Engaging Experience 1**

**Title:** Day One of Design Challenge

**Suggested Length of Time:** 1 day

**Detailed Description/Instructions:**

The teacher will choose a design challenge from the website. The teacher will then read the book that corresponds with the Design Challenge. After reading the story to students, the teacher proposes a problem-based challenge to the class related to the story (also from the website). The rest of the day, students will work to brainstorm and design solutions to the challenge. Students may do this by drawing or prototyping to make an example.

**Bloom's Level:** Synthesize

**Webb's DOK:** 3

### **Engaging Experience 2**

**Title:** Day Two of Design Challenge

**Suggested Length of Time:** 1 day

**Detailed Description/Instructions:**

Students work independently, partners, or small groups to create a solution to the design challenge using materials provided by the teacher. Once students have completed their design, they will be able to test.

**Bloom's Level:** Evaluation

**Webb's DOK:** 4