

Name of Exhibit: **Augmented Reality Sandbox**

Description: The Augmented Reality Sand Box holds sand in the box with colors that change. The changes happen based on the elevation of the sand, similar to a topographic map. As an additional feature, make “rain” (holding hand above the exhibit) and observe how the water moves on the “map” showing where the waters move acting as a model of a watershed.

For all ages.

MN SCIENCE Grad Stand/Strand/Sub-strand: Number####:

OP 2.1.1.1

1E 2.2.1.1, 1E 4.1.2.1

3P 1.2.1.1

4E 1.1.1.2, 4E 2.2.1.1, 4E 3.1.1.1

6E 3.1.1.3, 6E 4.1.1.1

Grade Level(s): Kindergarten through 6th Grades

Content Area(s): Earth and Space Science; Physical Science

Learning Target(s):

1. I can make an argument with evidence to evaluate multiple solutions designed to slow or prevent wind or water from changing the shape of the land.
2. I can provide measurements from observations that provide evidence of the effects of weathering and erosion by the forces including water, wind, temperature, and vegetation.
3. I can make an argument based on evidence for how geoscience processes have changed Earth’s surface at varying times and spatial scales.

Essential Question(s):

1. What are ways to prevent wind and/or water from changing the shape of the land?
2. How can weather affect changes in the shape of the land?
3. What are the effects of weathering and erosion?

Key Vocabulary in Demo: Elevation, Environment, Erosion, Geoscience, Ground Water, Minerals, Natural Resources, Rock Formation, Topographic, Watershed, Weathering