

Elementary Standards

2nd Grade

Standard: 2-ESS2. Earth's Systems	
Performance Expectation: 2-ESS2-2. Develop a model to represent the shapes and kinds of land and bodies of water in an area.	
Dimension	Classroom Connection
<i>Science and Engineering Practice</i> <ul style="list-style-type: none">Developing and Using Models	<ul style="list-style-type: none">By manipulating the 3D printed models and making measurements to create their own mountain profiles, students will be able to create their own models of an actual landform.
<i>Disciplinary Core Idea</i> <ul style="list-style-type: none">ESS2.A: Earth Materials and Systems	<ul style="list-style-type: none">By discussing the role that glaciers had in shaping this mountain, students will be able to understand how water, in the form of ice, can shape the land.
<i>Crosscutting Concept</i> <ul style="list-style-type: none">Stability and Change Science Addresses Questions About the Natural and Material World	<ul style="list-style-type: none">By discussing how the exposed mountainside they are working with was shaped by the movement and melting of glaciers over thousands of years, students will understand that the patterns and shapes of the land were formed or changed over very long timescales.By explaining how this data was collected and how the models were printed using a 3D printer, students will have a better understanding of how scientists and engineers work together with new technology to address questions about past and future changes in the Earth.