



Science Learning Packet

Grade 2, Week 7:

Changing Landforms

Suggested science learning activities for SPS students during the COVID-19 school closure.

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Due to the COVID-19 closure, teachers were asked to provide packets of home activities. This is not intended to take the place of regular classroom instruction but will help supplement student learning and provide opportunities for student learning while they are absent from school. Assignments are not required or graded. Because of the unprecedented nature of this health crisis and the District's swift closure, some home activities may not be accessible.

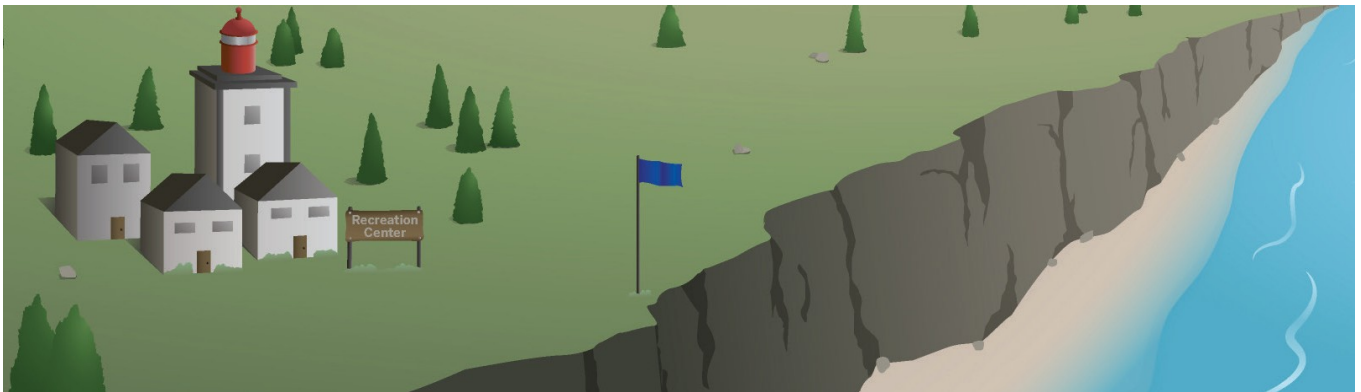
If you have difficulty accessing the material or have any questions, please contact your student's teacher.



Elementary Science Learning Activity

Materials to accompany Chapter 3,
Lessons 5 and Chapter 4, Lesson 1

Grade 2



AmplifyScience

Changing Landforms:

The Disappearing Cliff

Investigation Notebook

This packet has content materials for these lessons in for Changing Landforms

Chapter Lesson	Pages in the Packet
3.5	1-4
4.1	5-8
Glossary	9-10

If you do have a computer and internet access, here is how to obtain access to the available Amplify online resources

- For the book, *Handbook of Land and Water*, navigate to:
<https://learning.amplify.com/books/9781945191626/#page=1>
- Select "**Log In with Amplify**" button
- Enter teacher-provided **username** and **password** (see below)

Username: s.seattle1@tryamplify.net

Password: **SeattleSci2020**



Student: _____

Teacher: _____

Chapter 3: Lesson 5

Question 1: Using the *Handbook of Land and Water*, what evidence can you find to support that small changes add up to bigger changes over a long time?

Question 2: Using the Mountain Model, what evidence can you use to support that small changes add up to bigger changes over a long time?

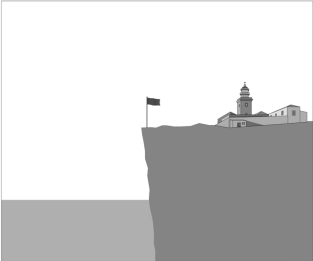
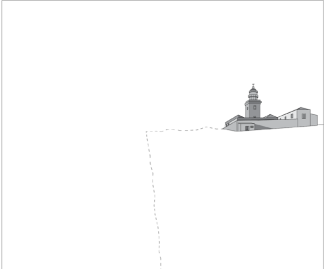
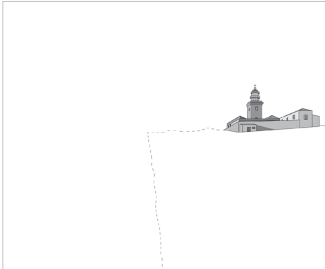
Question 3: Have your ideas changed about how landforms erode since the beginning of the unit? What evidence caused you to think this?

Scientific Explanation: How did the recreation center's cliff erode without the director noticing?

End-of-Unit Writing: Diagramming What Will Happen to the Cliff

Directions:

1. Look at the first picture in the diagram below and read its caption.
2. Describe what you might draw in the second picture of the diagram that would show how the cliff will have changed one year from now. Create a caption that explains how the cliff will look one year from now and why.
3. Describe what you might draw in the third picture of the diagram that would show how the cliff will have changed one million years from now. Create a caption that explains how the cliff will look a million years from now and why.

<p>Now</p> 	<p>Caption:</p> <p>Now, the flagpole is closer to the edge of the cliff than it was a long time ago.</p>
<p>1 year from now</p> 	<p>What I would draw in:</p> <p>My Caption:</p>
<p>1 million years from now</p> 	<p>What I would draw in:</p> <p>My Caption:</p>

Question 4: Should the director close the recreation center right away? Why or why not?

How can Landforms Erode Quickly?

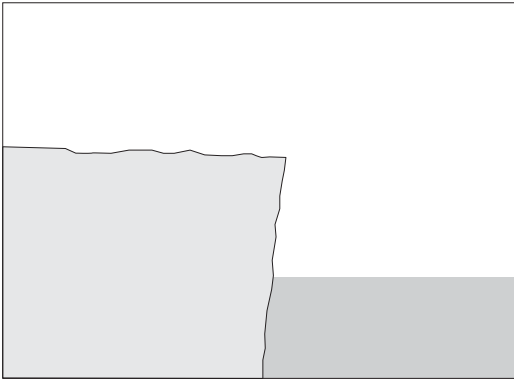
What we know	Questions we have

Diagramming How the Nearby Cliff Eroded 1

Directions:

1. Look at the first picture in the diagram below and read its caption
2. Describe what you would draw in the second picture of the diagram that would explain how the nearby cliff changed. Create a caption that describes what happened.
3. Look at the third picture in the diagram and read its caption.

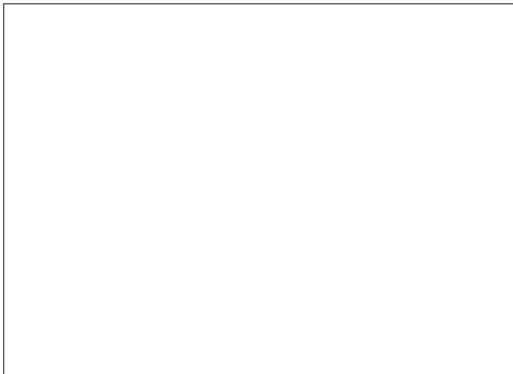
Yesterday



Caption:

Yesterday, the nearby cliff was bigger.

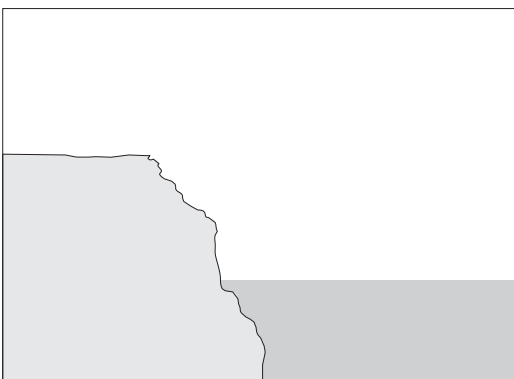
Overnight:



What I would draw in:

My Caption:

Today



Caption:

Today, the nearby cliff looks different than it did yesterday.

Ways Landforms Can Erode Quickly

Directions:

1. Read about at least two landforms in *Handbook of Land and Water*.
2. List each landform on the left side of the table.
3. On the right side of the table, explain how the landform can erode quickly.

Question: How can landforms erode quickly?

Landform	How the landform erodes quickly

Questions from the video

What can cause **landforms** to be **less stable**?

What is an example of a landform that can erode quickly because of **cracks in the rock**?

What is an example of a landform that can erode quickly because it is **made of loose materials**?

Glossary

diagram: an illustration that shows how something works or what its parts are
diagrama: una ilustración que muestra cómo funciona algo o cuáles son sus partes

erosion: when rock, soil, or sand is worn down and moved from one place to another

erosión: cuando la roca, el suelo o la arena son desgastados y movidos de un lugar a otro

evidence: information that supports an answer to a question

evidencia: información que respalda una respuesta a una pregunta

explanation: a description of how something works or why something happens

explicación: una descripción de cómo algo funciona o por qué algo pasa

geologist: a scientist who studies the solid part of Earth

geólogo/a: un científico o una científica que estudia la parte sólida de la Tierra

landform: a feature of Earth's surface, such as a mountain, a cliff, or a valley

accidente geográfico: un rasgo de la superficie de la Tierra, como una montaña, un acantilado o un valle

model: something scientists make to answer questions about the real world

modelo: algo que los científicos crean para responder preguntas sobre el mundo real

observation: something you notice using any of the five senses

observación: algo que notas usando cualquiera de los cinco sentidos

scale: how big or small something is, or how fast or slow events happen

escala: qué tan grande o pequeño es algo, o qué tan rápido o lento suceden los eventos

Glossary (continued)

stable: staying mostly the same

estable: que permanece más o menos igual

visualize: to make a picture in your mind using information from different sources

visualizar: hacer una imagen en tu mente con información de diferentes fuentes