



Science Learning Packet

Grade 2, Week 9:

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.

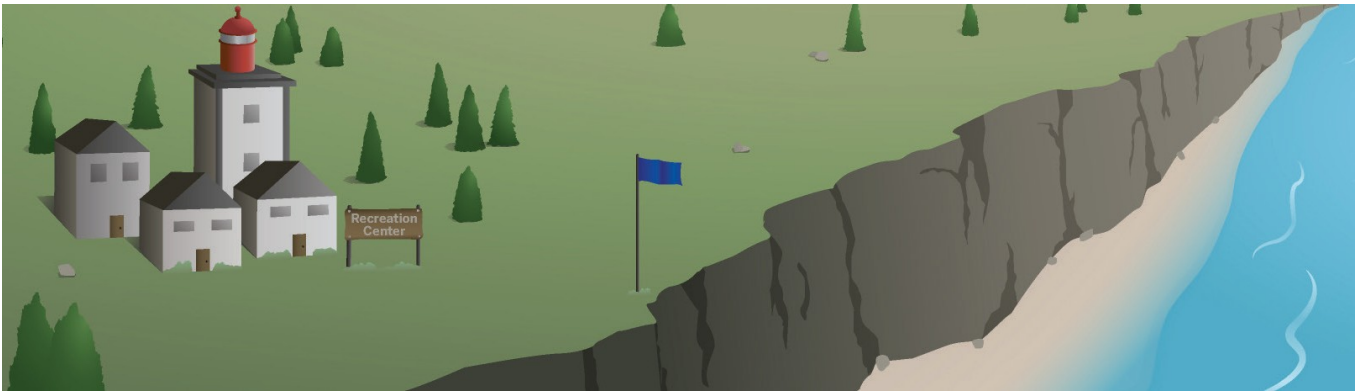
If you have difficulty accessing the material or have any questions, please contact your student's teacher.



Elementary Science Learning Activity

Materials to accompany Chapter 4, Lesson 5

Grade 2



AmplifyScience

Changing Landforms:

The Disappearing Cliff

Investigation Notebook

New Information about the nearby cliff

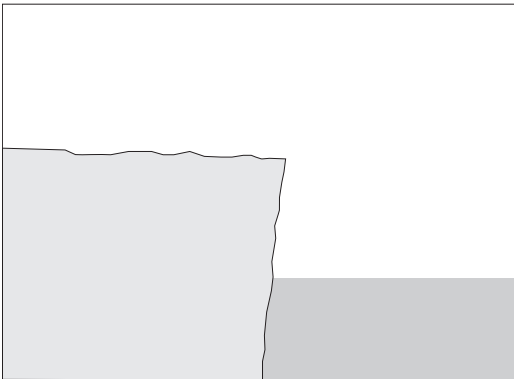
The Nearby Cliff	Is This Information Useful?
There is a walking path nearby.	
Plants are growing in the area.	
The ocean is at the bottom of the cliff.	
The cliff is made of loose soil.	
The color of the cliff is brown.	
When a person picked up some small pieces of the cliff, the pieces crumbled in the person's hand?	

Diagramming How the Nearby Cliff Eroded 2

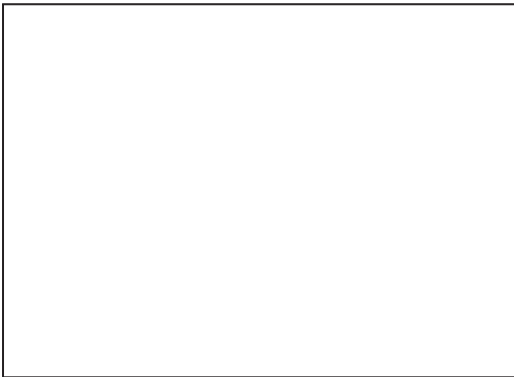
Directions:

1. Look at the first picture in the diagram below and read its caption.
2. Draw what the second picture would be in the diagram, then take a photo and attach it in the box. Write a caption to explain how the nearby cliff eroded overnight.
3. Look at the third picture in the diagram and read its caption.

Yesterday



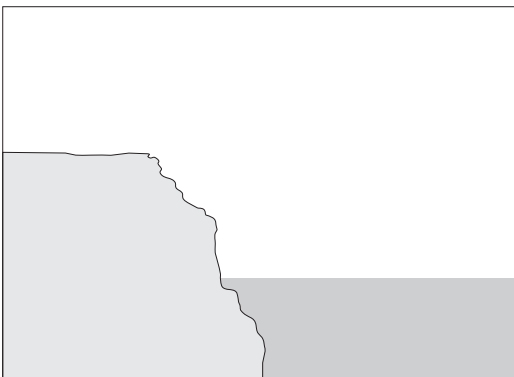
1. Yesterday, the nearby cliff was bigger.



2. _____

_____.

Today



3. Today, the nearby cliff looks different than it did yesterday because it eroded quickly.

What Is a Scientific Explanation?

This checklist might help you with your writing:

Questions to keep in mind	My ideas	Did I use my ideas?
What question am I answering?		
What science ideas will I include?		
To whom am I writing this?		
What science words am I including?		

Name: _____ Date: _____

End-of-Unit Writing: Explaining the Nearby Cliff

Directions:

Write a scientific explanation that answers the question below.

Question: Why did the nearby cliff erode overnight?

The nearby cliff eroded overnight because:

Review of Key Concepts Found in this Unit

If you were in the classroom, your teacher would have these posted. We think you should have them to help you with writing your final explanation.

Chapter	Key Concepts	Which ones will I use?
1	<ul style="list-style-type: none"> • Landforms are made of rock. • Even if geologists can't see a change happening, they can use models to visualize how it may have happened. • Even though rock is hard, it can change shape. 	
2	<ul style="list-style-type: none"> • The shape of a landform changes when water causes pieces of rock to break off. • Water hitting a landform causes tiny pieces of the landform to break off. • Scientists make diagrams to show their ideas about how the world works, based on evidence from investigations, models, and books. 	
3	<ul style="list-style-type: none"> • Maps show where water and land are and where different landforms are. • Many small changes that are hard to notice can add up to a bigger change that is easy to notice. • When many small changes happen over a long time, the whole landform changes. 	
4	<ul style="list-style-type: none"> • Wind and water can erode a landform quickly if the landform is made of loose materials. 	

Checking My Writing

This will help you review your writing to see if you included all you have learning in this unit.

Writing Tips	Included in my Explanation
Did I explain how the nearby cliff eroded overnight?	
Did I explain why it changed so quickly?	
Does my explanation begin with a sentence that answers the question?	
Have I written to my audience (Director Higgins)?	
Have I described the erosion changing the shape of the landform?	

1. Why do you think this might be a **good way to prevent erosion?**

2. What might be a **problem** with this plan?

Preventing Erosion: Planting Trees



Planting trees can prevent erosion.



Tree roots hold the rock and dirt in place.

Preventing Erosion: Building Terraces



Building terraces into a hillside can prevent erosion.



Terraces make more of the land flat instead of steep.

3. Why do you think this might be a **good way to prevent erosion?**

4. What might be a **problem** with this plan?
