

TODAY WE
ARE GOING
TO LEARN
ABOUT
EROSION!

SECOND GRADE



LET'S GET UP AND MOVE!

WHEREVER
YOU ARE,
STAND UP
AND DANCE
WITH THE
SONG!



https://www.youtube.com/watch?v=xBqFq88Bcp4&feature=emb_logo

WHAT DID YOU NOTICE?

In this activity, you will need an **observation journal** to record what you notice. On one side of the page, write what you noticed in the video. Then, watch the video again and write on the other side of the page what types of land you observe.

What did you notice in the video?

- ❖ Maybe you noticed:
- ❖ They had cool dance moves!
- ❖ They showed pictures of nature.
- ❖ They used wind and water
- ❖ They can plant trees or build a dam

What type of land do you observe?

- ❖ Maybe you saw:
- ❖ Desert
- ❖ River
- ❖ Beach
- ❖ Canyon

Landscape: an area of land that you can see

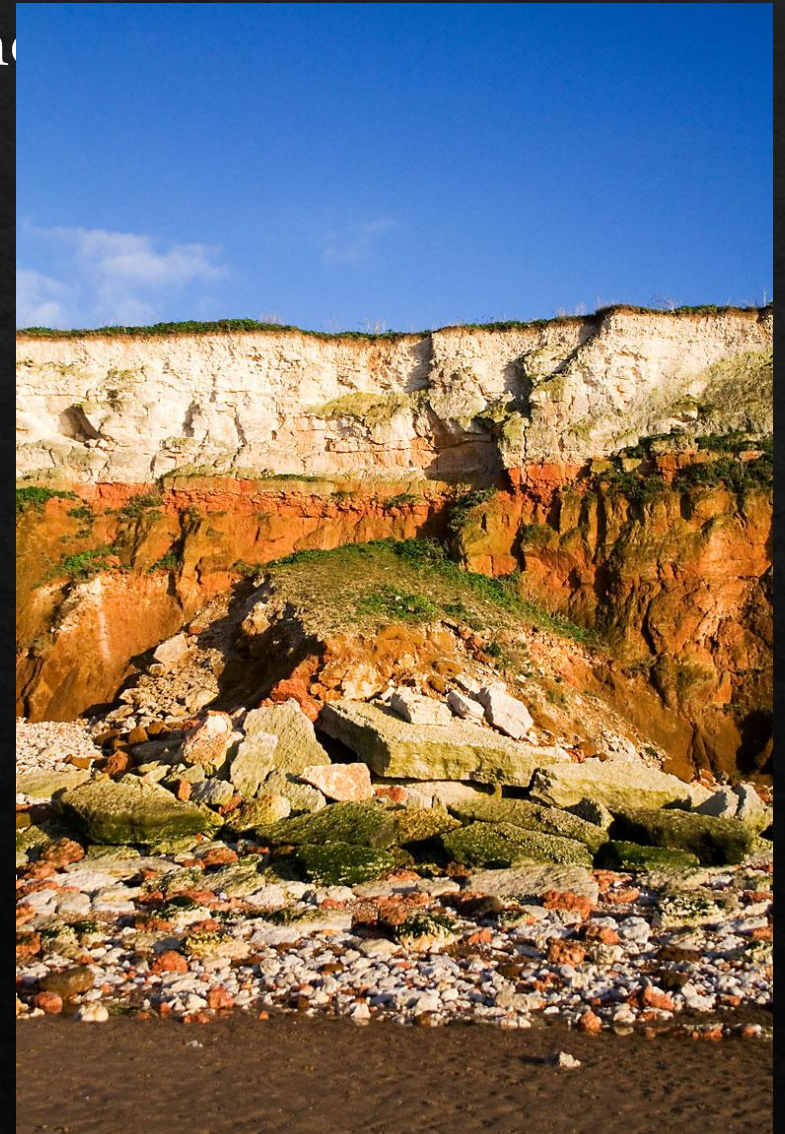
DO YOU
KNOW
THESE
WORDS?



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Erosion: when part of the landscape moves from one place to another

DO YOU
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Slope: when the land is slanted

DO YOU
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NOW IT'S YOUR TURN TO EXPLORE!

For this science experiment, you will need:

- ❖ A large tub
- ❖ Dirt
- ❖ A paper cup
- ❖ A paper cup with a hole in the bottom (ask an adult to help you with that!)
- ❖ Rocks



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PUTTING IT TOGETHER

Step 1: Fill the tub partially with dirt.

Step 2: Form the dirt into a slope (where there is more dirt on one side of the tub than the other).

Step 3: Fill in your landscape with small hills or cliffs.

Step 4: Record in your **observation journal** what your landscape looks like, using either words or pictures.

THE PROCESS

Step 1: Fill the paper cup with water.

Step 2: Hold the paper cup with the hole in it over the taller side of the slope, where there is more dirt. Slowly pour in the water.

Step 3: Watch as the water moves down the slope! Record in your **observation journal** what you notice.

How does your landscape change? Is there more dirt at the bottom of the slope?

What happened to the color of the water?

EXPLORING!

Now experiment with how water changes your landscape!

Maybe you add the water at different places. Maybe you add more or less water.

What makes the erosion (the movement of the land) slower?

What makes it move faster?

Take some time to explore and have fun.

Don't forget to record your observations!

SO WHAT'S GOING ON HERE?

Erosion happens when forces cause the earth to become loose. These forces could be birds pecking at a cliff, wind beating at the hill, or the earth becoming soft with too much water.

When large amounts of water come over the landscape, such as rain, the water picks up pieces of the dirt and moves the dirt along with it.

This creates features such as rivers and canyons like we saw in the video!

But when large amounts of earth move really quickly, this causes lots of harm.

We as humans can help slow the harm caused by erosion. As they said in the video, we can plant trees or build a dam!

When we plant trees and other plants, their roots grow deep into the ground. Roots drink up a lot of water in the dirt and keep the ground stable. This way the dirt is less likely to move from erosion!

Here the roots are
growing deep into the
earth!

Erosion caused this river to be muddy!



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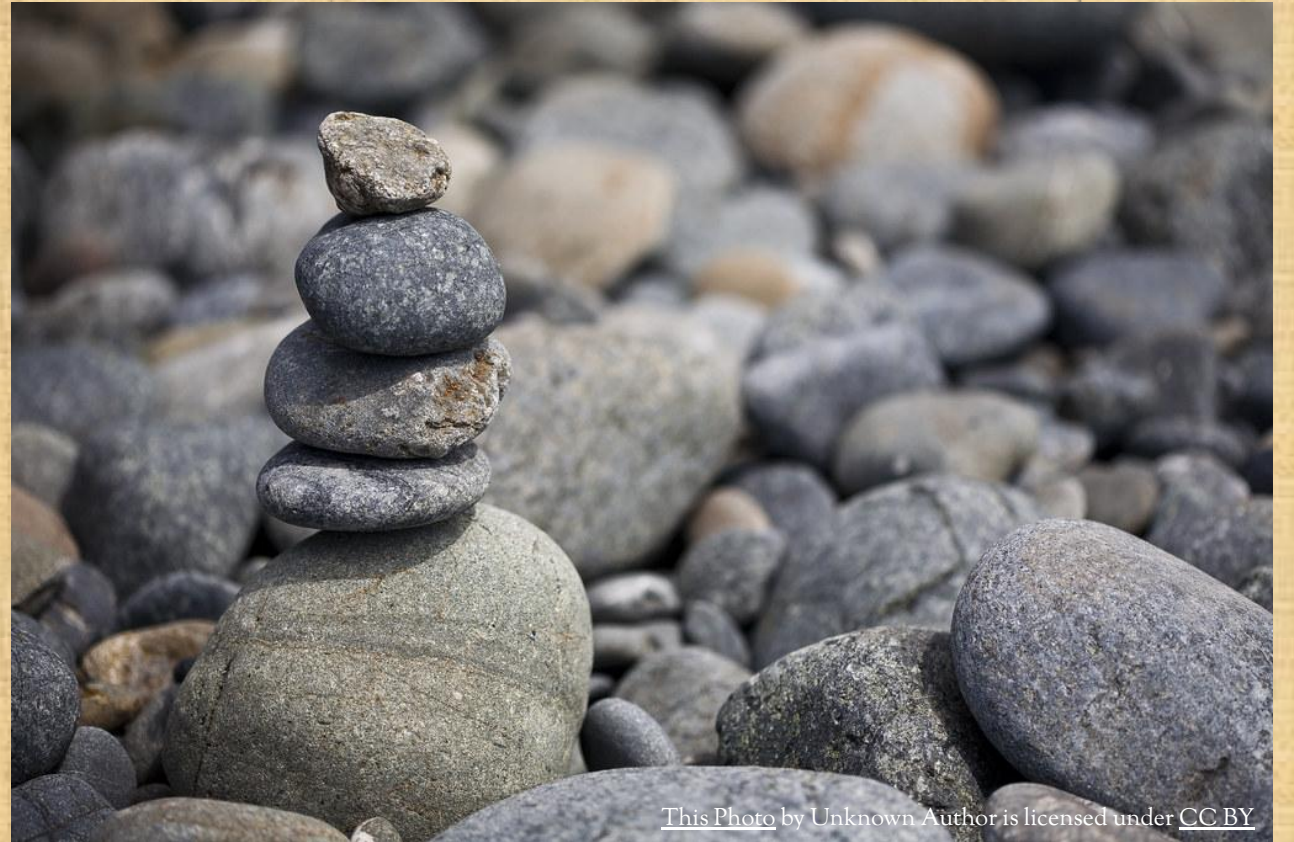
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MORE EXPLORING

Try building a dam with rocks.

Or maybe try placing small plants in your landscape.

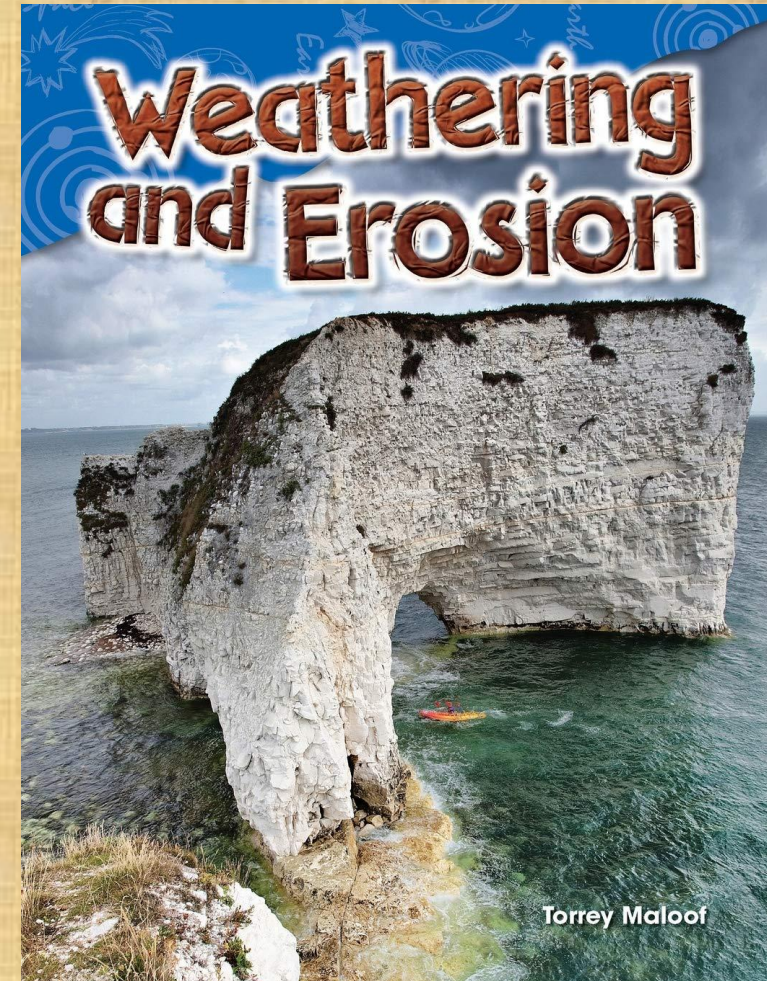
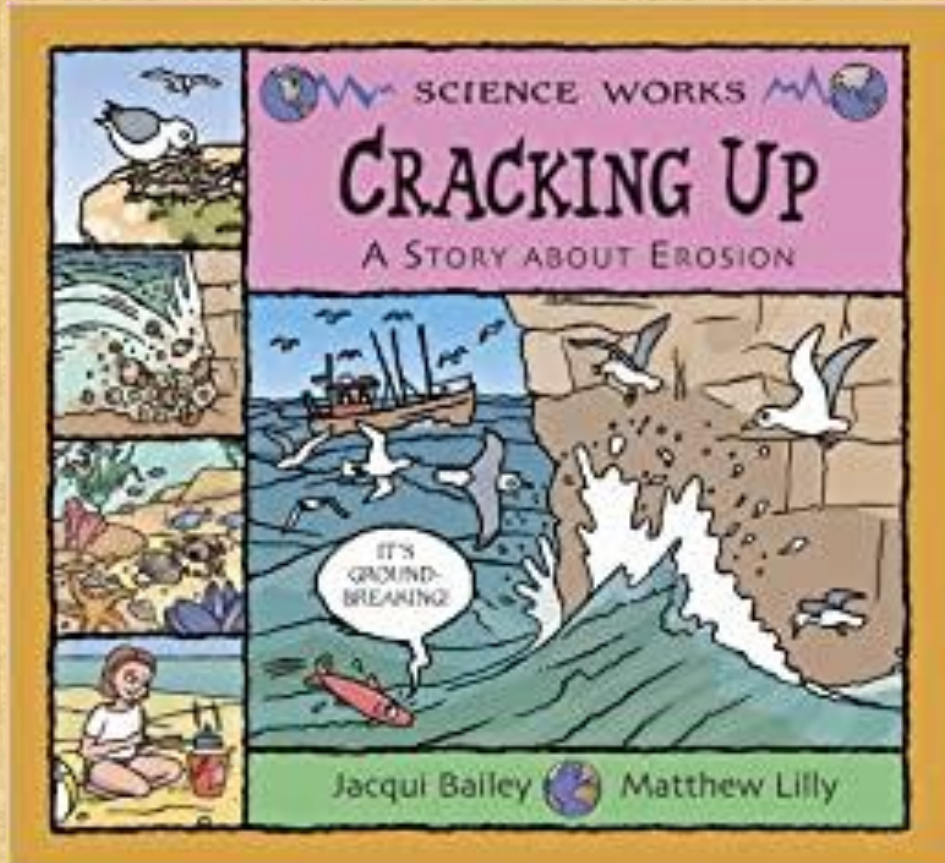
How do these changes slow the speed of erosion?



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WANT TO LEARN MORE?

Check out these super cool books!



Resources:

Next Generation Science Standards. (2020, October 01). Retrieved November 01, 2020, from <https://www.nextgenscience.org/>

NSTA: National Science Teaching Association. (2020). Retrieved November 01, 2020, from <https://www.nsta.org/>

The Erosion SONG | Science for Kids | Grades K-2
https://www.youtube.com/watch?v=xBqFq88Bcp4&feature=emb_logo

Make Your Own Erosion!
<https://www.youtube.com/watch?v=YETdZyZI6es>

https://www.google.com/search?q=Cracking+Up:+A+Story+about+Erosion&source=lmns&bih=625&biw=1366&hl=en&sa=X&ved=2ahUKEwjvvLemu-LsAhVFlJ4KHV9YAFUQ_AUoAHoECAEQAA