

EROSION SCIENCE EXPERIMENT WITH GRASS



EROSION SCIENCE EXPERIMENT WITH GRASS

Name: _____ Date: _____

Does Grass Help Prevent the Erosion From Water?

Erosion is the slow process by which the earth is worn away. This is due to forces like wind and waves. Erosion's damage doesn't happen all at once. Erosion happens little by little, over time.

One element that contributes greatly to erosion is rain. Whether it's a steady drizzle or a major downpour, rain can do a lot of damage. The damage happens a couple different ways. It happens when the rain is coming down and striking the earth. It also happens when fallen rainwater runs across the ground looking for drainage. The looser the soil is, the more likely the soil is to get washed away. So, what helps slow the forces of soil erosion?

One of the things that binds together all different kinds of land is root systems. The big and small tendrils stretching out from plants help hold the soil in place. What's even better than a single root system? Lots of them!

That's why planted grasses are so helpful for erosion prevention. Grasses have soft stems. These are better for binding than woody stems. They also have fibrous roots. They spread out in all directions. More importantly, every blade of grass has its *own* root system. These multiple root systems mean *more* binding overall. All that grassy groundcover means something else, too. It means more protection *above* the soil to deflect rain and help it run off elsewhere for drainage.

So, planted grass is best for erosion prevention. It helps bind the soil. However, even cut grass – or dead leaves, wood chips, or anything else – is helpful for erosion control, too. Anything that helps protect from the rain's impact, or helps move excess water along, can also help to slow erosion.

EROSION SCIENCE EXPERIMENT WITH GRASS

Name: _____ Date: _____

Does Grass Help Prevent the Erosion From Water?

1. What are some things that contribute to erosion?

2. How do fibrous roots help with soil erosion?

3. If you wanted to keep soil in place, what are some things you could do to prevent soil erosion?



EROSION SCIENCE EXPERIMENT WITH GRASS

Name: Example Answers Date: _____





Does Grass Help Prevent the Erosion From Water?

1. What are some things that contribute to erosion?
Rain, waves, or any water, and wind cause erosion by gradually moving or breaking down soil/rock.
2. How do fibrous roots help with soil erosion?
Fibrous roots spread out and cover a large area. The larger the area with roots, the more soil that is protected and kept in place, free from erosion.
3. If you wanted to keep soil in place, what are some things you could do to prevent soil erosion?
Since covering the soil to prevent wind or water from reaching the soil is probably not the best idea, planting grasses, plants, or even trees could limit soil erosion because their roots help to prevent soil from moving from where it is.



Spring Science : Grass and Erosion

WHAT YOU NEED

		
FOIL PAN	DIRT	GRASS/DIRT
		
WATER	CUP	SAND

1

Spring Science : Grass and Erosion



Place tightly packed clumps of sand, dirt, and grass/dirt into the foil pan.

2



Spring Science : Grass and Erosion



Add water to a measuring cup. Make your predictions. Which pile – sand, dirt, or grass/dirt – will stand up to erosion the best?



Spring Science : Grass and Erosion



Gently and slowly pour water over each of the piles.



Spring Science : Grass and Erosion



Which pile held up the best?

WANT MORE SPRING RESOURCES?

SPRING MATH ACTIVITIES

5TH GRADE



BEEHIVE SORT
Directions: Determine if the numbers are in simplest form or not. Sort them to the correct beehive.

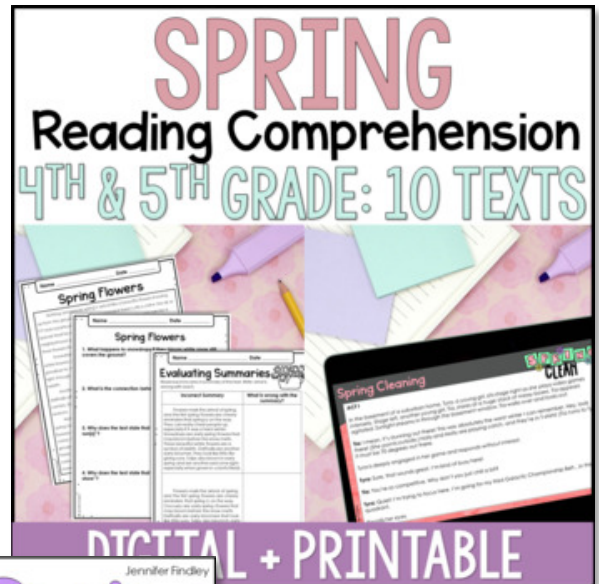
TULIP SHAPES
Read the statements on the lines, and decide if they are true or false. Write true or false on the lines.

BUTTERFLY COMPARISONS

GOOGLE SLIDES INCLUDED

SPRING Reading Comprehension

4TH & 5TH GRADE: 10 TEXTS



Spring Flowers

Evaluating Summaries

Spring Cleaning

DIGITAL + PRINTABLE

5th Grade Spring Grammar Review

Reviews All 5th Grade CCSS Language Standards



PARTS OF SPEECH

The children were meandering around the trees in their neighborhood as they tried to sell lemonade.

WRITING PROMPTS

Read the sentence below. Add a comma or comma as needed.

Have you ever had the opportunity to visit a beehive and watch the bees in action? How do you feel about it? Write a paragraph about your experience.

GRAMMAR

Determine if the underlined words are synonyms, antonyms.

Pollen covers people's clothes, and people have pollen on their clothes.

Read the sentence below. Add a comma or comma as needed.

Read the sentence below. Add a comma or comma as needed.

Have you ever had the opportunity to visit a beehive and watch the bees in action? How do you feel about it? Write a paragraph about your experience.

WRITING PROMPTS

Many people spend springtime tending to their gardens. Would you rather pick the crops or plant the seeds? Write an opinion piece that clearly supports your opinion.

WRITING PROMPTS

Beautiful flowers are a perfect symbol for spring. Write about a fictional world where flowers do not exist.

GOOGLE SLIDES INCLUDED

Spring-Themed Writing Prompts

WRITING PROMPTS, PLANNING PAGES, AND PUBLISHING PAGES



WRITING PROMPTS

Have you ever heard that old saying, "Spring flowers bring 'May flowers'?" Which would do you prefer: rain or flowers? Write an opinion piece that clearly supports your opinion.

WRITING PROMPTS

Many people spend springtime tending to their gardens. Would you rather pick the crops or plant the seeds? Write an opinion piece that clearly supports your opinion.

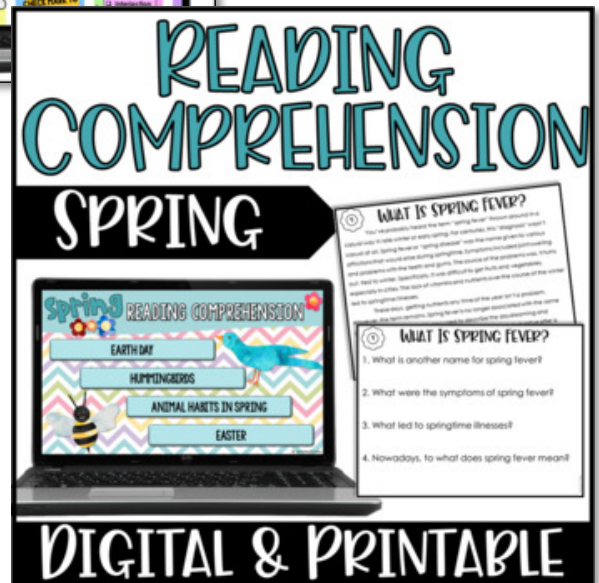
WRITING PROMPTS

Beautiful flowers are a perfect symbol for spring. Write about a fictional world where flowers do not exist.

GOOGLE SLIDES INCLUDED

READING COMPREHENSION

SPRING



Spring Reading Comprehension

EARTH DAY

HOPPING FROGS

ANIMAL HABITS IN SPRING

EASTER

WHAT IS SPRING FEVER?

1. What is another name for spring fever?

2. What were the symptoms of spring fever?

3. What led to springtime illnesses?

4. Nowadays, to what does spring fever mean?

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Thanks!
Jennifer Findley

