

ELA, Grade 3, Lesson 19

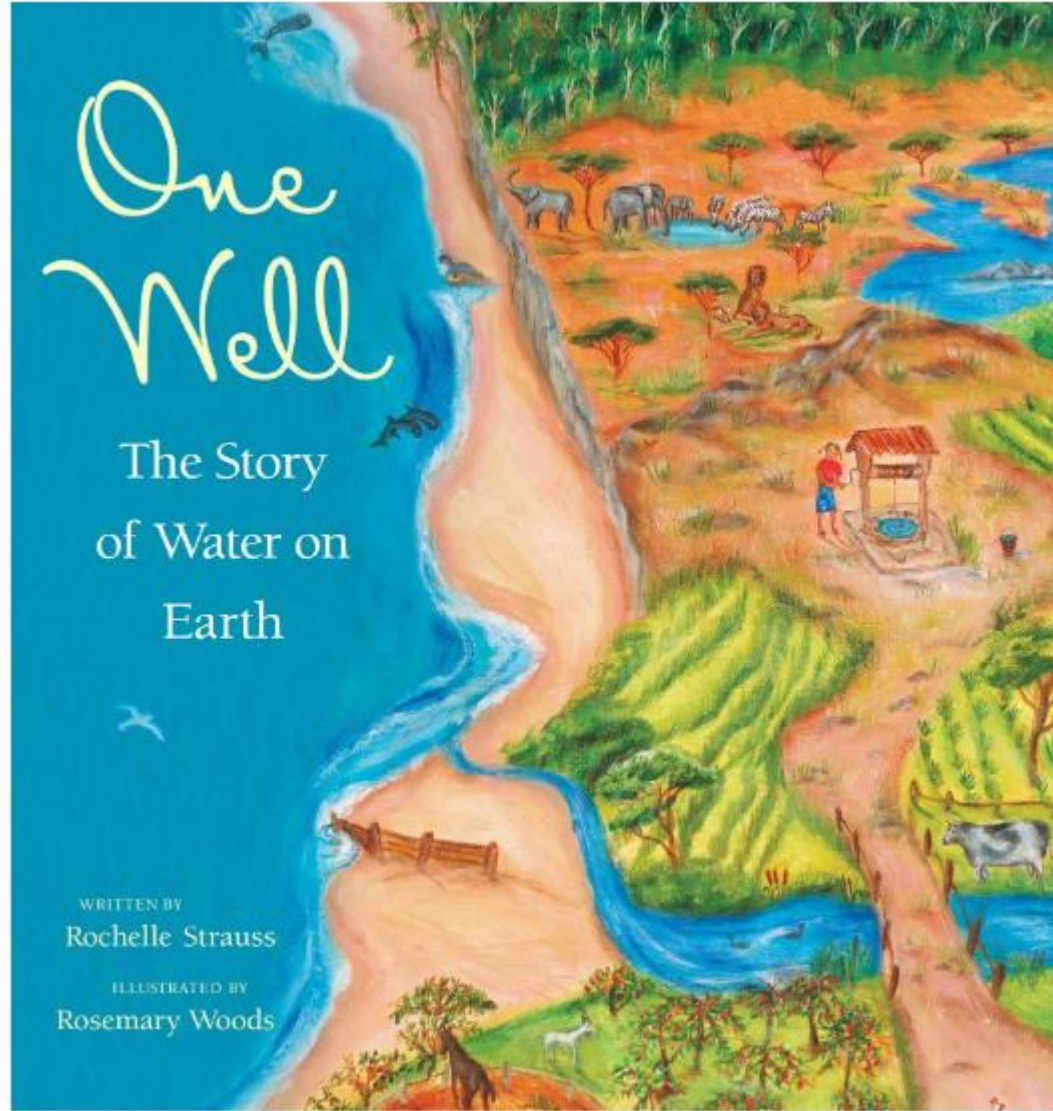
Teacher Packet

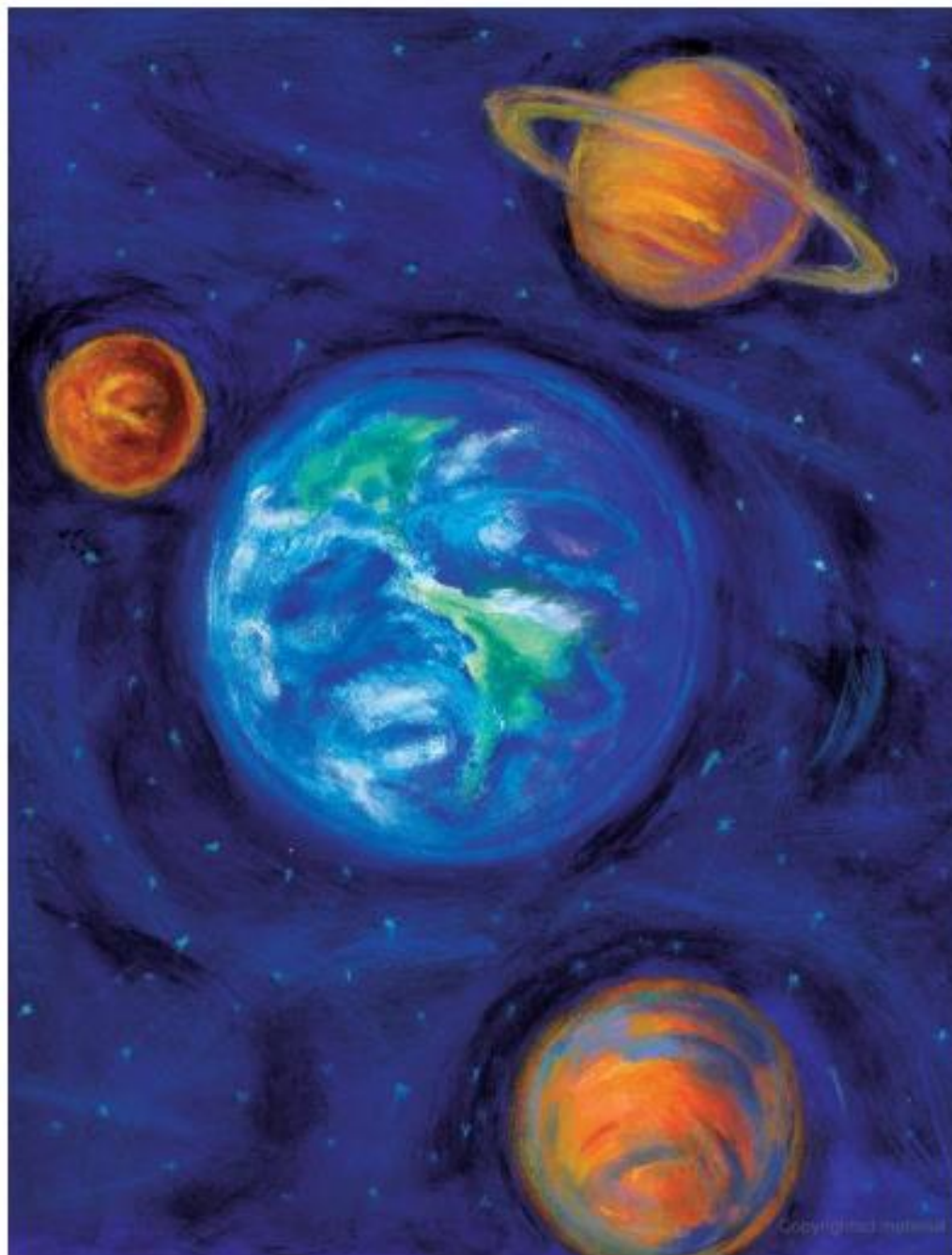
One Well

The Story
of Water on
Earth

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The Water in the Well

We live on a watery planet. Almost 70 percent of Earth's surface is covered with water. This surface water is found in oceans, lakes, rivers, streams, marshes, even in puddles and the morning dew. There is so much water that if you looked down at Earth from space, it would appear blue.

But there is also water we can't see, beneath the Earth's surface. This "groundwater" can be found just about everywhere—it fills the cracks in rocks and the spaces between rocks, grains of sand and soil. Most groundwater is close to the Earth's surface, but some of it is buried quite deep. Water is also frozen in glaciers and polar icecaps. And there is water in the atmosphere.

Every one of these water sources feeds Earth's One Well.

WHERE IS THE WATER ON EARTH?

Oceans	97.23 percent
Icecaps and glaciers	2.14 percent
Groundwater	0.61 percent
Freshwater lakes	0.009 percent
Inland saltwater seas	0.008 percent
Moisture in the soil	0.005 percent
Water in the atmosphere	0.001 percent
Rivers	0.0001 percent

Yes, there is more water in the atmosphere and soil than in all of Earth's rivers.

Main Idea and Key Details Graphic Organizer from the “Where is Water in the World” lesson.

Main idea of the text:

Water is on, below, and above Earth. Every drop of water feeds the global well.

Key details from the text that help me understand the main idea:

- More than half of Earth’s surface is covered with water.
- Many places have water. Some of these places are small and some are large.
- Large bodies of water can be seen from space.
- Water, in the form of ice, can be found in glaciers and polar ice caps.
- Water is in the atmosphere too!

Learning target: I can write an informational paragraph to explain where water is on earth.

Prompt: Write a paragraph that explains where water is on earth. Use specific facts, definitions, and details you have learned about water to support your writing.

Independent Practice

Directions:

Write a paragraph that explains where water is on earth. Use specific facts, definitions, your graphic organizer, and details from the text to support your writing.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

Recycling Water in the Well

The water you drank today may have rained down on the Amazon rainforest five years ago. A hundred years ago, it may have been steam escaping a teapot in India. Ten thousand years ago, it may have flowed in an underground river. A hundred thousand years ago, it may have been frozen solid in a glacier. And a hundred million years ago, it may have quenched the thirst of a dinosaur.

The amount of water on Earth doesn't change — there's no more water now than when the dinosaurs walked the Earth. The same water just keeps going through a cycle over and over again. This constant movement of water is called the water cycle.

During the water cycle, water

evaporates from oceans, lakes, rivers, ponds and puddles, even from plants and animals. It rises into the air as water vapor.

As water vapor rises, it cools into tiny water droplets. This is called condensation. These droplets form clouds. Gradually, clouds collect more and more water droplets. The average white cloud weighs about twice as much as a blue whale.

When water droplets get too heavy, they fall from the clouds in the form of hail, snow or rain. This precipitation returns to oceans, lakes and rivers. It also seeps into the soil and down into the groundwater. Year after year, water continuously circulates through the water cycle.

The Water Cycle



In one year, an area of rainforest the size of a football field pumps over 75 000 L (19 700 U.S. gal.) of water vapor into the atmosphere — more than enough to fill a backyard swimming pool.

It takes about one million tiny water droplets to make just one raindrop.

Why are the oceans salty? Rivers flow into the sea, collecting salt from rocks and soil and adding it to the ocean. As ocean water evaporates, the salt is left behind.

Vocabulary Word	Definition	What I know Or How I figured it out
recycle		
forms of recycle: recycling		

Vocabulary Word	Definition	What I know Or How I figured it out
<p>recycle</p> <p>forms of recycle: recycling</p>	<p>Change waste into reusable materials</p>	<ul style="list-style-type: none"> • Used background knowledge of recycling materials at home • Used prefix re- and base word
<p>quench</p> <p>Forms of quench: Quenched- past tense</p>	<p>Relieve or solve</p>	<ul style="list-style-type: none"> • The text said dinosaurs used water for their thirst. • Water quenched or solved dinosaur's thirst.



Vocabulary Word	Definition	What I know Or How I figured it out
cycle	Something that repeats or is continued	I used my background knowledge and used the text "over and over again".
water cycle	This constant movement of water is called the water cycle.	I read the text and determined that the author defined the words in the text.
evaporate	Turn from liquid into vapor	I used my background knowledge and clues from the text.

Vocabulary Word	Definition	What I know Or How I figured it out
water vapor	Is water that changes from a liquid to a gas	The author said water evaporates from Earth and rises into the air.
condensation	The process of water vapor turning back into water droplets.	The author gave the definition in the sentence before the vocabulary word.
precipitation	Water that falls from the clouds. It can look like rain, snow, sleet, or hail.	The text says when water droplets get too heavy, they fall from the clouds in the form of hail, snow or rain.

Independent Practice

Directions:

- Complete the graphic organizer.
- Use your note catcher.
- Say each word out loud.
- Draw a picture.
- Write a complete sentence.
- Spell the vocabulary words correctly.

Vocabulary Word	Picture	Complete Sentence
recycle forms of recycle: recycling- present tense		
quench forms of quench: quenched-past tense		
cycle water cycle		
evaporate forms of evaporate: evaporates- present tense		
water vapor		
condensation		
precipitation		

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