

ELA, Grade 3, Lesson 20

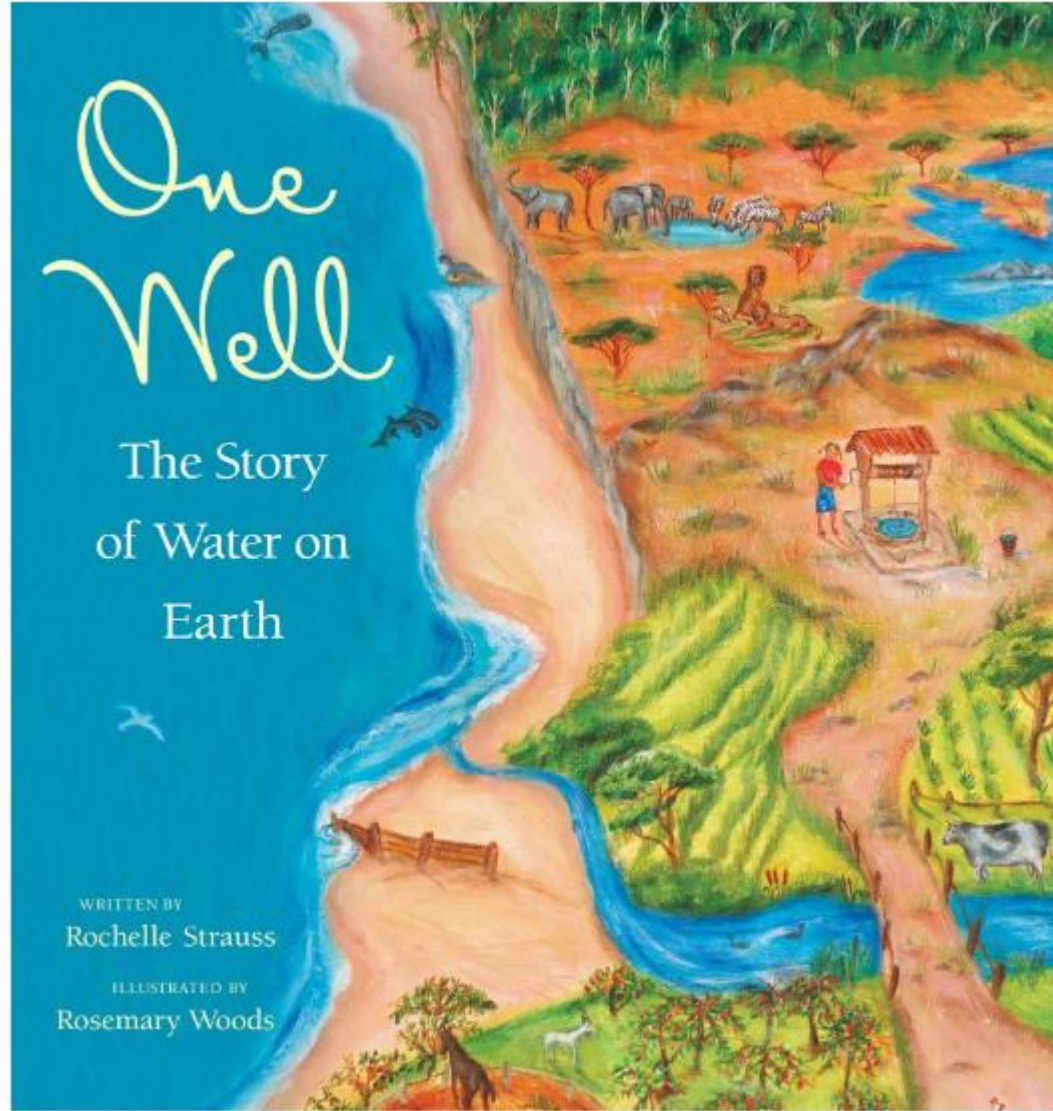
Teacher Packet

One Well

The Story
of Water on
Earth

WRITTEN BY
Rochelle Strauss

ILLUSTRATED BY
Rosemary Woods



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.



Independent Practice

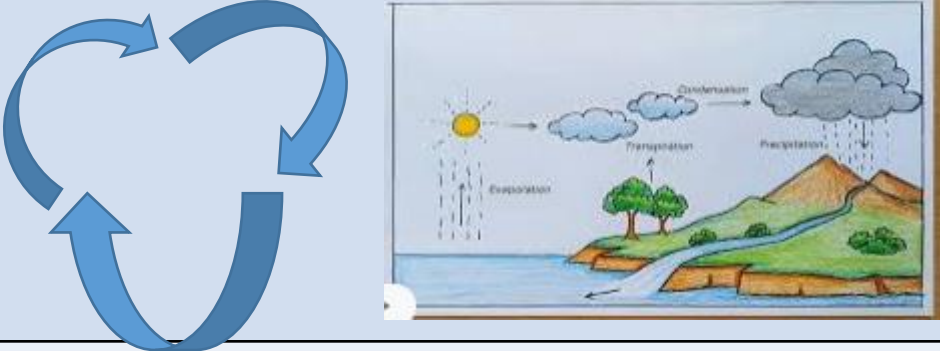
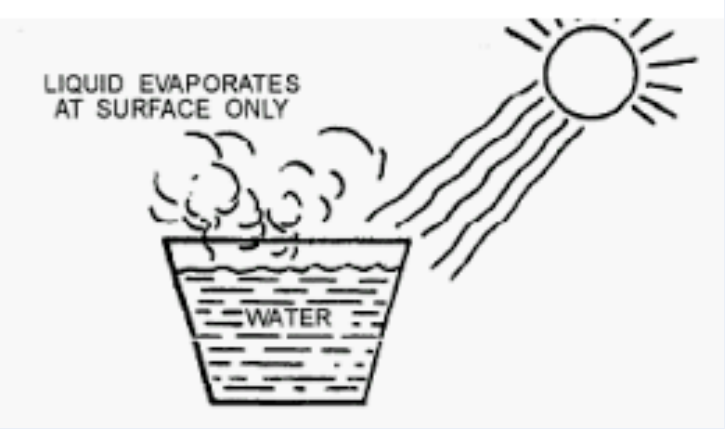
Directions:




- 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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Vocabulary Word	Picture	Complete Sentence
<p>recycle</p> <p>forms of recycle: recycling- present tense</p>		<p>Much like I recycle plastic products at my home, the Earth recycles its water. We have recycled the same water for hundreds of thousands of years.</p>
<p>quench</p> <p>forms of quench: quenched-past tense</p>		<p>Even though our water cycles through the ground and the atmosphere, I drink clean, fresh water to quench my thirst.</p>

Vocabulary Word	Picture	Complete Sentence
<p>cycle</p> <p>water cycle</p>		<p>When I see a drawing of the water cycle, it helps me understand how all water is connected from one source called the global well.</p>
<p>evaporate</p> <p>forms of evaporate: evaporates- present tense</p>		<p>The process of evaporation, part of the water cycle, explains how a puddle is in the street and disappears shortly after the sun comes out.</p>

Vocabulary Word	Picture	Complete Sentence
water vapor		<p>The process of water changing form into water vapor is much like when the teapot screams and spits steam on my stove!</p>
condensation		<p>On a hot summer day, my icy glass of lemonade becomes wet with condensation.</p>
precipitation		<p>When the clouds get too heavy with water droplets, they burst and the precipitation falls to Earth. Depending on the air temperature and conditions, precipitation could be rain, sleet, or hail.</p>

Main Idea and Key Details Graphic Organizer

Main idea of the text:

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

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- We have used and reused the same water since Earth began.

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- Earth's water cycle causes the effect of having the same amount of water on Earth forever.

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- Evaporation is a step in the water cycle when air rises into the air as water vapor.

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- Precipitation is the step in the water cycle where water droplets fall from the sky.

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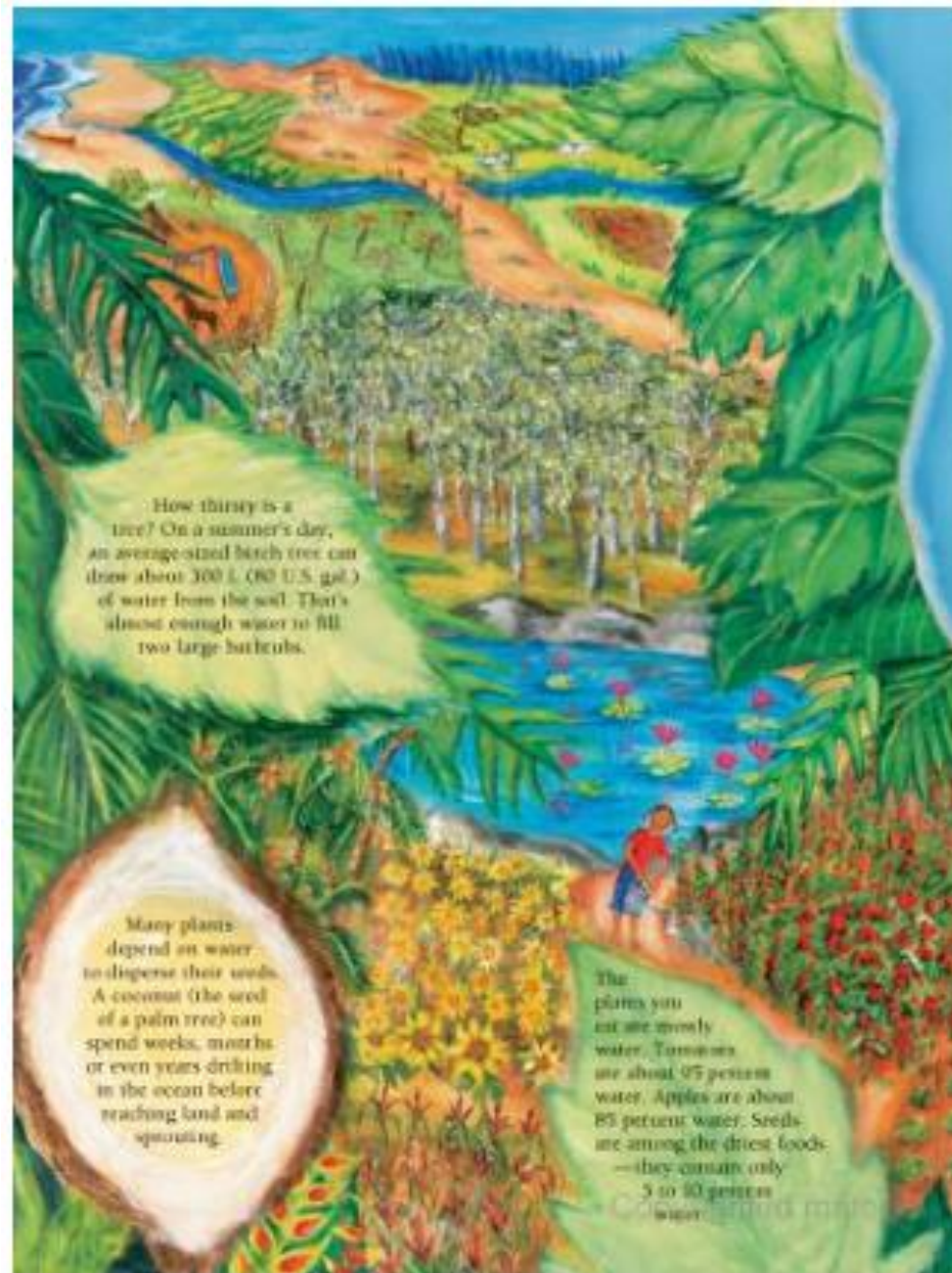
Main idea of the text:

The main idea was the water cycle causes water on Earth to go through the steps over and over. The effect is we have reused the same water for millions of years.

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- Evaporation is a step in the water cycle when air rises into the air as water vapor.
- Condensation is a step in the water cycle when vapor cools and turns into water droplets.
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How thirsty is a tree? On a summer's day, an average-sized birch tree can draw about 300 L (80 U.S. gal.) of water from the soil. That's almost enough water to fill two large bathtubs.

Many plants depend on water to disperse their seeds. A coconut (the seed of a palm tree) can spend weeks, months or even years drifting in the ocean before reaching land and sprouting.

The plants you eat are mostly water. Tomatoes are about 95 percent water. Apples are about 85 percent water. Seeds are among the driest foods—they contain only 5 to 10 percent water.



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Directions:

Your assignment is to write an opinion essay.

Prompt: In your opinion, why did the author, Rochelle Strauss, add facts at the conclusion of the text?

In your essay, be sure to include:

- An introduction
- An opinion with supporting reasons.
- A graphic organizer
- Linking words and phrases
- A concluding sentence

Don't forget proper *sentence structure and grammar!*