

TEACHER OVERVIEW

Humans and Water

Kindergarten - 2nd Grade

Nature Vision Student Packet

The materials contained within this packet for students have been created by Nature Vision, an environmental education nonprofit organization that brings programming to schools and local greenspaces for over 70,000 PreK-12th grade students each year in King and Snohomish Counties. This curriculum is designed to foster an understanding of the importance of water and its integral role in supporting life and shaping our planet. Packets can be completed by students either independently from home or with the help of an adult caregiver. Materials for each day of the week build on the previous days' learning by offering a variety of activities that involve art, writing, safe field exploration, and kinesthetic activities.

These materials are provided to you by Cascade Water Alliance (Cascade). Cascade wants everyone to understand the importance of conserving and protecting our limited water resources. Cascade supports Nature Vision in the development and delivery of water education programs and we are happy to offer these materials to our friends in the community. Learn more about Cascade at cascadewater.org.

This unit supports NGSS Performance Expectations across various disciplines, as well as supporting K-12 Integrated Environmental and Sustainability Standards. These are listed at the bottom of this page. Teachers will be supplied with PDF formats of materials to be emailed to families, or teachers may print and send to students to complete at home.

Students begin with an introduction to our region's water supply, including surface water such as rivers and groundwater. Students then learn about the difference between drinking water. Students learn a great ways to save their water supply by utilizing smart gardening practices. Highlighting the connection to local water conservation, students are made aware of the global water crisis. The unit is finished with a focus on stewardship and what we can do to protect our water supply.

If you have any further questions or concerns regarding this packet, please email our Office Coordinator at info@naturevision.org.

Grades K-2

Supports NGSS Performance Expectations: K-LS1-1, K-ESS2-2, K-ESS3-1, K-ESS3-3, 2-ESS2-2, 2-ESS2-3, K-2-ETS1-1.

Grades K-2
Day 1 - Water Supply
Day 2 - Drinking Water
Day 3 - Smart Gardener
Day 4 - Water Around the World
Day 5 - Stewardship

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PARENT/CAREGIVER OVERVIEW

Humans and Water

Kindergarten - 2nd Grade

Welcome to Nature Vision's student packet for home use. Nature Vision is an environmental education nonprofit organization that brings programming to schools and local greenspaces for over 70,000 PreK-12th grade students each year in King and Snohomish Counties. We are excited to be offering this version of our programming directly to students at home!

This packet is designed to be completed over the course of one week, with each day focusing on a different aspect of environmental science and stewardship. The majority of these materials can be completed independently but we thought it would be important to provide background information for any adults who may be helping to complete or answer questions. We've included the basic learning objectives for each day along with some vocabulary.

These materials are provided to you by Cascade Water Alliance (Cascade). Cascade wants everyone to understand the importance of conserving and protecting our limited water resources. Cascade supports Nature Vision in the development and delivery of water education programs and we are happy to offer these materials to our friends in the community. Learn more about Cascade at cascadewater.org.

Another great resource to learn about saving water and how to help our salmon and watersheds is weneedwater.org. Check out the We Need Water webpage or on Instagram @WeNeedH2O to see how you can be part of this campaign! Challenge yourself to use #WeNeedWater to post all the things you are doing with your friends and family to conserve and protect water!

*Please contact info@naturevision.org with any questions or concerns
Stay connected with Nature Vision! Follow us for updates @naturevisionorg*



NOTE: Students may require support in reading directions and/or completing some tasks. While many activities in this packet are creatively oriented and open ended, you may consult the answer key located at the back of the packet for additional assistance or guidance.

Unless otherwise noted, images courtesy of freepik.com

PARENT/CAREGIVER OVERVIEW: DAY 1

Water Supply

Background Information: In our area there are three main sources from where people receive their drinking water: the Tolt River Watershed, Cedar River Watershed, and from wells filled with groundwater. Our cities and water districts — member areas of the Cascade Water Alliance — carefully treat and monitor this water to make sure it is safe for human consumption. They send this treated water through a distribution system. Each American uses an average of 100 gallons of water per day.

Learning Objectives: Students will learn about their water supply, and its importance to their community at large. Students will understand that water is a finite resource and will be introduced to our local water supply system (where it is located and where the water flows from source to faucet). Students will also understand the human and natural factors that affect water supply and understand why we need to save water.

Main Activity: Water at Home

- **Overview:** Students must think about the ways they use water at home, figuring out which items end up using the most water every day
- **Parent/Caregiver Tasks:** None

Optional Activity: We Need Water Challenge

- **Overview:** Students complete a daily task related to a water conservation habit and a challenge to spread awareness on the importance of saving water
- **Parent/Caregiver Tasks:** If possible, help the student post their #WeNeedWater challenge on social media

Optional Activity: Connect the Dots

- **Overview:** Students connect the dots and reveal a picture of a glass of water, then draw themselves drinking from the glass of water
- **Parent/Caregiver Tasks:** None

PARENT/CAREGIVER OVERVIEW: DAY 2

Drinking Water

Background Information: Our drinking water is a separate human system that require multiple steps for proper health and sanitation. Our drinking water comes from the Tolt and Cedar River Watersheds. It also can come from some areas drawing from groundwater through a well system.

Learning Objectives: Students will learn about water systems. They will understand how water is supplied to us from watersheds and aquifers, and how to use this water responsibly. Students will continue their investigation of how water flows to and from the human-built environment.

Main Activity: The Water Journey

- **Overview:** Students draw arrows to show where water flows during its journey from the mountains to our homes
- **Parent/Caregiver Tasks:** None

Optional Activity: We Need Water Challenge

- **Overview:** Students complete a daily task related to a water conservation habit and a challenge to spread awareness on the importance of saving water
- **Parent/Caregiver Tasks:** If possible, help the student post their #WeNeedWater challenge on social media

Optional Activity: Drinking Water Word Search

- **Overview:** Students find and circle words related to the drinking water treatment process
- **Parent/Caregiver Tasks:** None

PARENT/CAREGIVER OVERVIEW: DAY 3

Smart Gardener

Background Information: Efficient gardening and natural yard care practices help ensure a reliable supply of water, keep utility operating costs lower, and allow more water to stay in watershed ecosystems. Practices such as using mulch or compost on our plant beds, watering our gardens and yards during the morning or evening, and watering our plants close to the roots, is a systems approach to change habits that affect our watershed health.

Learning Objectives: Students will explore the ways in which water can be used efficiently in gardens and yards, and how their actions at home and school can have a positive impact on the health of their watershed. Students will explore the ways a healthy garden is an example of systems thinking between natural cycles and human-built environments.

Main Activity: Garden Dos and Don'ts

- **Overview:** Students are presented with wasteful gardening methods and must identify and draw the correct way to use water
- **Parent/Caregiver Tasks:** None

Optional Activity: We Need Water Challenge

- **Overview:** Students complete a daily task related to a water conservation habit and a challenge to spread awareness on the importance of saving water
- **Parent/Caregiver Tasks:** If possible, help the student post their #WeNeedWater challenge on social media

Optional Activity: Garden Coloring Sheet

- **Overview:** Students color in a garden scene
- **Parent/Caregiver Tasks:** None

PARENT/CAREGIVER OVERVIEW: DAY 4

Water Around the World

Background Information: In many communities around the world people do not have access to a water supply in their homes the way we do. Instead of turning on a faucet, mainly women and girls spend multiple hours a day carrying five gallon water containers many miles to and from their local water source. This five gallons of water is the daily water supply for their entire household, meaning they share the water with their whole family. Compare this to the average 100 gallons of water an average American household consumes daily. Also, since women and girls spend hours simply carrying water home, they are unable to engage in paid work or school.

Learning Objectives: Students will discover how the amount of water used by the world's poorest communities is small and often insufficient for good health and basic sanitation. They will discuss water conservation methods that can be implemented into their daily lives to ensure they don't take their access to a plentiful water supply for granted. Students will understand the many problems that arise when communities do not have access to clean water.

Main Activity: 5-Gallon Challenge

- **Overview:** Students put themselves in the position of a family using just 5 gallons of water per day where they must make choices about how to use their water
- **Parent/Caregiver Tasks:** Help with cutting water pieces

Optional Activity: We Need Water Challenge

- **Overview:** Students complete a daily task related to a water conservation habit and a challenge to spread awareness on the importance of saving water
- **Parent/Caregiver Tasks:** If possible, help the student post their #WeNeedWater challenge on social media

Optional Activity: Water Teamwork

- **Overview:** Students will imagine a scenario where they must fetch water, assigning related jobs and tasks to themselves and the others in their house
- **Parent/Caregiver Tasks:** None

Optional Activity: Water Well Maze

- **Overview:** Students will complete a maze to the center well and collect water
- **Parent/Caregiver Tasks:** None

PARENT/CAREGIVER OVERVIEW: DAY 5

Stewardship

Background Information: Stewardship is how we care for the natural world. Stewardship includes conserving natural resources (e.g. water) that all living things need to survive, thinking and acting carefully about how we interact with the world around us, and doing our best to ensure we positively impact the environment. Specifically, stewardship activities center around what everyone can do to save water and keep it clean for the rest of the environment.

Learning Objectives: Students will combine their knowledge gained throughout the week to consider ways they can support the environment. They should focus on water conservation by thinking carefully about natural resource use.

Main Activity: Hoses and Ladders

- **Overview:** A simple board game focused on water conservation
- **Parent/Caregiver Tasks:** Play the game!

Optional Activity: We Need Water Challenge

- **Overview:** Students complete a daily task related to a water conservation habit and a challenge to spread awareness on the importance of saving water
- **Parent/Caregiver Tasks:** If possible, help the student post their #WeNeedWater challenge on social media

Optional Activity: Water Use I-Spy

- **Overview:** Students will search a water-use poster for small or hidden details
- **Parent/Caregiver Tasks:** Assist with internet access

PARENT/CAREGIVER OVERVIEW: VOCABULARY

DAY 1

Groundwater: Water held underground in the soil or in between layers of rock and clay

Watershed: An area of land that allows water to flow off and drain into rivers, lakes, streams, and oceans

Well: A structure made by digging or drilling into the ground to access groundwater

DAY 2

None

DAY 3

Mulch: Organic mixture that can include grass clippings, leaves, shredded bark, and wood chips that is added around or over a plant to insulate the plant, retain water in the soil, and minimize weed growth

Compost: Soil made from decayed organic material that is added to plants to enrich with additional nutrients, like a plant fertilizer

DAY 4

None

DAY 5

Conservation: Protecting the natural world, especially by making smart choices about our natural resource use

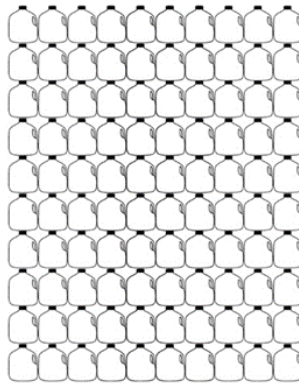
Stewardship: Taking care of something; being a protector

DAY 1

Water Supply



Here in Washington we use a lot of water. One person uses about 100 gallons of water in one day! Do you think that is a lot of water? One gallon is like one milk jug you buy at the store. That means one person uses 100 milk jugs of water in one day. That is a lot of water to use in one day!

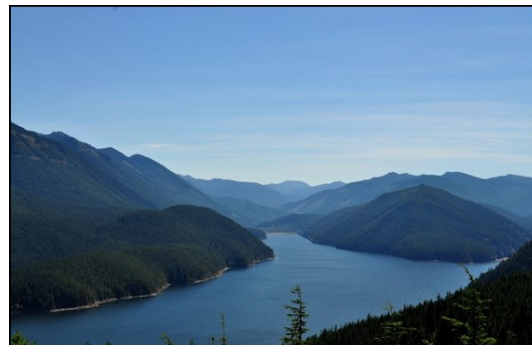


100 Gallons

All of the 100 gallons of water we use in one day comes from nature! Our drinking water comes from three places in nature. They are called the Cedar and Tolt River **watersheds**, and **groundwater**. The Cedar and Tolt River **watersheds** start as snow and rain in the Cascade Mountains.

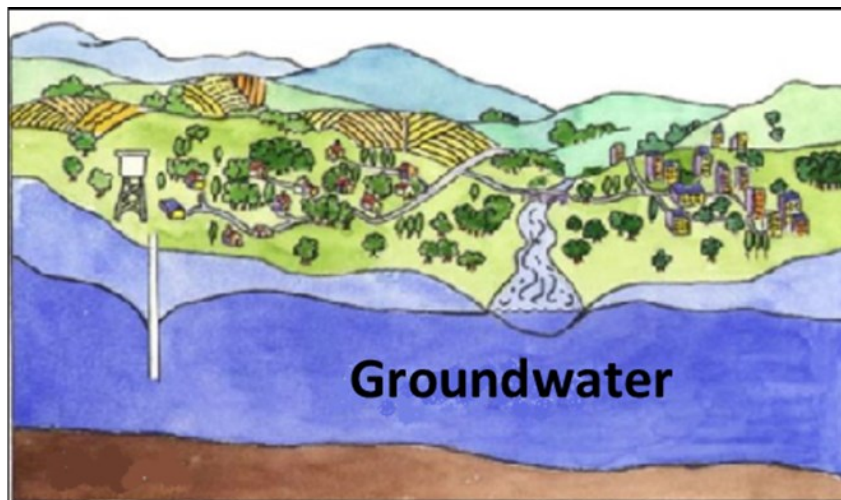


Tolt River Watershed

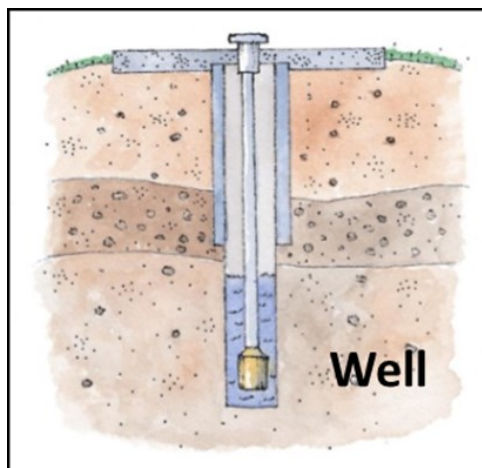


Cedar River Watershed

Groundwater is water that is underground. All of the water in the rivers, watersheds, and groundwater is filled by snow and rain that melts off of the Cascade Mountains. Water is always moving!



A **well** is a hole made in the ground by humans. A well is used to reach to the groundwater. A pipe is put into the well hole to bring the groundwater up to the top. A well is an important structure. There are many people that rely on groundwater for drinking and other uses.



Vocabulary

Groundwater: Water held underground in the soil or in between layers of rock and clay

Watershed: An area of land that allows water to flow off and drain into rivers, lakes, streams, and oceans

Well: A structure made by digging or drilling into the ground to access groundwater

Main Activity

Water at Home

Think of all the ways you use water at home and school. You use water in many different ways. We learned that one person uses around 100 gallons of water a day. That 100 gallons of water is not all used in the same way. We use it to fill a glass of water. To take a shower. To boil a pot of water. To wash your dishes. To flush the toilet! There are many ways we use water every day.

Materials: Writing utensil

These pictures show some of the ways we use water at home.

1. Circle the one that uses the most water every day.
2. Draw an X on the way that is a complete waste of water.
3. Draw a heart on the machines that uses a lot of water to clean our things. *Hint: There are two answers! These are machines you should only use when full.*
4. Draw a star on the one that uses the second most amount of water every day.



Laundry



Flushing the toilet



Dishwasher



Leaky Faucet



Shower

Optional Activity

We Need Water Challenge

There are so many ways to save, protect, and care for our water. At the end of every daily lesson, we will be giving a challenge to help you show off what you've learned.

Materials: Timer, computer/phone/tablet, internet connection

Did you know that your shower uses about 2 gallons of water every minute? Most people shower for about 10 minutes, and use almost 20 gallons of water for every shower. One of the simplest ways to save water is to think about the amount of time that we are in the shower. It's recommended that we take showers that are just 5 minutes long to save water. For today's We Need Water challenge, time how long you are in the shower and calculate out how much water you used today with an adult. Can you use less tomorrow?

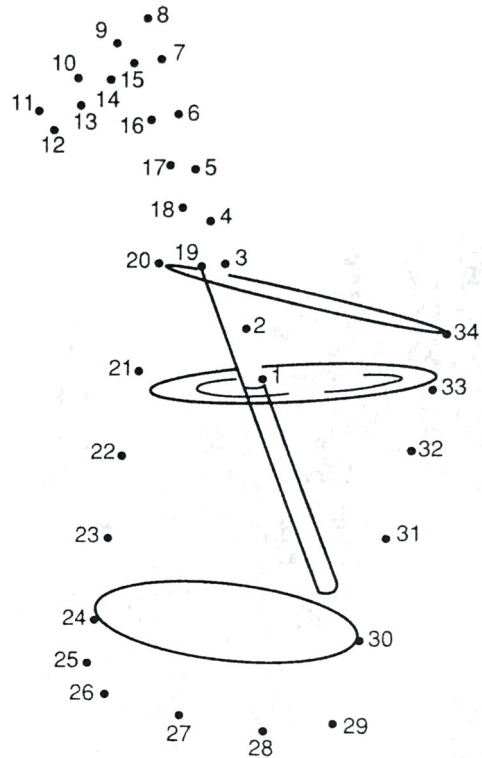
To share your work, post your challenge to Facebook and/or Instagram (with an adult) so other people in your community can learn too! Don't forget to use the hashtag #WeNeedWater and tag @weneedh2o and @naturevisionorg in your post so we can see your work!

Optional Activity

Connect the Dots

This picture will reveal something we do every day using water. Using a writing utensil, connect the dots by following the numbers! What is it? After connecting the dots, draw yourself taking a drink of water.

Materials: Writing utensil, crayons/markers/colored pencils

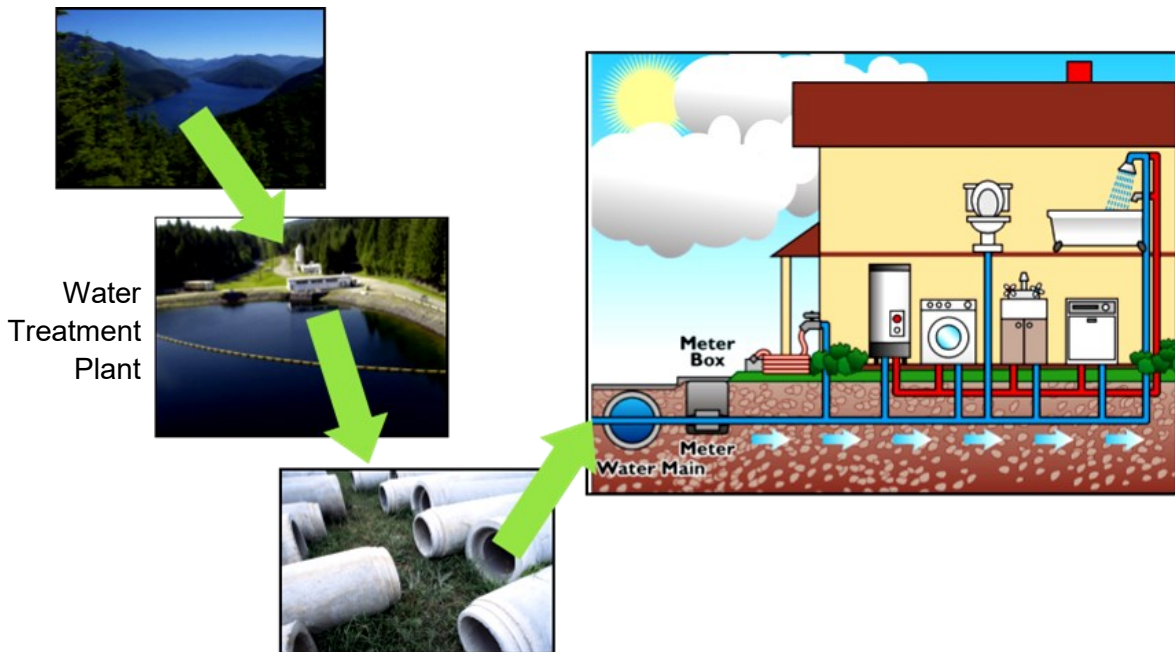


DAY 2

Drinking Water

Yesterday we learned the water we use at home and school comes from the Cedar and Tolt River watersheds, and groundwater. That water doesn't go right to your home sink from the river or ground. The water must be cleaned first! There are germs called bacteria that can make people sick. The water is sent to a plant to have it cleaned, or treated. When it is safe for humans to drink and use then the water is sent through big pipes under our streets. These pipes connect to buildings where humans use water, like our homes! Once it is inside the building it will go through more pipes so water can come out of the sink, shower, toilet, laundry machine, dishwasher, and hose!

Our drinking water goes through many steps to make sure it is clean enough for humans to use at home, school, and everywhere else that uses water. The adults at the water treatment plant take extra care of our water so that we can use it. We need to take care and not waste water once we turn on the faucet, the shower, flush the toilet, use the dishwasher/laundry machine, or turn on the hose. The water goes through a lot to move from nature and into our homes for us to use.



Main Activity

The Water Journey

Your drinking water goes through a journey. Starting off as snow and rain in the mountains then ending up as water that comes out of our faucet, toilet, shower, and many other places in our buildings.

Materials: Black washable writing utensil, blue washable writing utensil

The steps below outline what you should do on the following page. With a black writing utensil, draw arrows from each picture box to show how water moves in nature! With a blue writing utensil, draw arrows from each picture box to show how water moves after it leaves the drinking water treatment plant and goes to the places human use water.

1. Start from the "START HERE" picture box.
2. Draw a black arrow to show where this snow and rain will go first as it falls from the sky.
3. Draw a black arrow to show where water will go after it melts from the mountains.
4. Draw a black arrow to show where water will go to be treated for humans to use.
5. Draw blue arrows from the drinking water treatment plant to the places humans use water by turning on the faucet, flushing the toilet, taking a shower, and so on!
6. BONUS:
 - From the drinking water treatment plant, draw more places that the clean water can go for humans to use.
 - From the places humans use clean water, draw things that humans use that need water to work.



Optional Activity

We Need Water Challenge

Humans change a lot of different things in nature, sometimes in good ways and sometimes in bad ways. One of the bad ways that people have affected nature is through climate change, which is when pollution and other human actions start to affect the normal temperatures, weather, water, or even other living things around the world.

Materials: Writing utensil, crayons/markers/colored pencils (optional), computer/phone/tablet, internet connection

For today's #WeNeedWater challenge, it's story time! Talk to an older person in your family and see if they have any stories about climate change affecting their life. If you're wondering what to ask, maybe see if they have noticed...

- Colder winters than when they were your age?
- Hotter, drier summers?
- Melting ice and glaciers in the mountains?
- Big storms happening more often?
- Bigger wildfires?

If your storyteller agrees, record everything that they tell you! You can write down their stories, draw a picture or comic showing what happened, or you can even record them and make a short video.

To share your work, post your challenge to Facebook and/or Instagram (with an adult) so other people in your community can learn too! Don't forget to use the hashtag #WeNeedWater and tag @weneedh20 and @naturevisionorg in your post so we can see your work!

Optional Activity

Drinking Water Word Search

Water must be cleaned before it is safe for humans to drink. Water is cleaned in a water treatment plant. Once treated, it is sent to everybody to use!

In order to learn more water-related words, find and circle the words below.

Materials: Writing utensil

Water Treatment Plant Word Search

J G S O Y C K Z T S
W R B J N Y L K H J
L I R F R P I E Y G
D V Z R X K G A A P
R E O P W E L L N N
I R E P L L A K E N
N F L I I A P N F F
K L C P Z U N Z W S
M S V E Q B T T W X
E H N Z J W A T E R

Plant
Pipe

Water
Well

Clean
Lake

River
Drink

DAY 3

Smart Gardener

One of the many ways we use water is by watering our gardens, yards, and plants at home. Plants need water to grow! The water that comes out of the hose is the same water that comes out of the faucet. Yesterday, we learned that our drinking water goes from nature to our homes after being treated. Saving water outside our home is just as important as saving water inside our home!

Here are some smart ways to use water outside when watering our gardens, yards, and plants!

1) Water your plants gently and close to the root

When you water your plants near the soil, the water is able to reach the roots better. The roots of the plants are what soaks up the water. Water from the top of the plant would waste water because the leaves are not able to soak up any water.



2) Water your plants in the morning or evening

When you water in the morning or in the evening, the water will not dry up and more water will stay on the ground for the plants.



3) Add mulch or compost at the bottom of your plants on top of the soil

Mulch is a mix of leaves, sticks, bark, grass, and other dead plant material. Compost is a type of very healthy soil. When you add mulch or compost to your growing plant, it helps to keep the water in the soil so you need to water it less.



Vocabulary

Mulch: Organic mixture that can include grass clippings, leaves, shredded bark, and wood chips that is added around or over a plant to insulate the plant, retain water in the soil, and minimize weed growth

Compost: Soil made from decayed organic material that is added to plants to enrich with additional nutrients, like a plant fertilizer

Main Activity

Garden Dos and Don'ts

A lot of people don't know about all of the wonderful ways to save water in the garden. Can you help show them what to do?

Materials: Writing utensil, crayons/markers/colored pencils

On each of the next pages, you will see a picture showing someone wasting water in the garden. It is your job to teach them some new ways to use water. In the space below each picture, draw your own picture that shows the correct way to use water in the garden.

For example, if you see a picture like this that shows a dripping garden tap...



...then you might draw a picture of somebody turning it off, or a plumber fixing the leak.



This sprinkler is spraying water all over the place.

***What are people doing wrong in the picture above?
Draw your picture here, showing a smarter way to garden:***



The hot sun is shining while the water sprays.

***What are people doing wrong in the picture above?
Draw your picture here, showing a smarter way to garden:***



The soil has no cover.

***What are people doing wrong in the picture above?
Draw your picture here, showing a smarter way to garden:***

Optional Activity

We Need Water Challenge

We have learned so much about taking care of our world for us and all of the life that will live here in the future!

Materials: Writing utensil, crayons/markers/colored pencils (optional), computer/phone/tablet, internet connection

Write a letter or draw a picture to your future self. In the letter or picture, explain what you are doing or plan to do to make sure your future self has a clean, healthy environment. Talk about what you hope the world will look like in twenty years and why what you're learning here matters.

When you finish, seal up your letter and write a date years from now and put it somewhere safe. Don't open the letter until that date! Who knows, maybe with enough care the future will look a lot like you imagine when you open it!

To share your work, post your challenge to Facebook and/or Instagram (with an adult) so other people in your community can learn too! Don't forget to use the hashtag #WeNeedWater and tag @weneedh20 and @naturevisionorg in your post so we can see your work!

Optional Activity

Garden Coloring Sheet

When we use our water the right way, we can grow some wonderful things! Color in this picture of a water-wise gardener taking care of the flowers, mushrooms, and more in their garden.

Materials: Writing utensil, crayons/markers/colored pencils



DAY 4

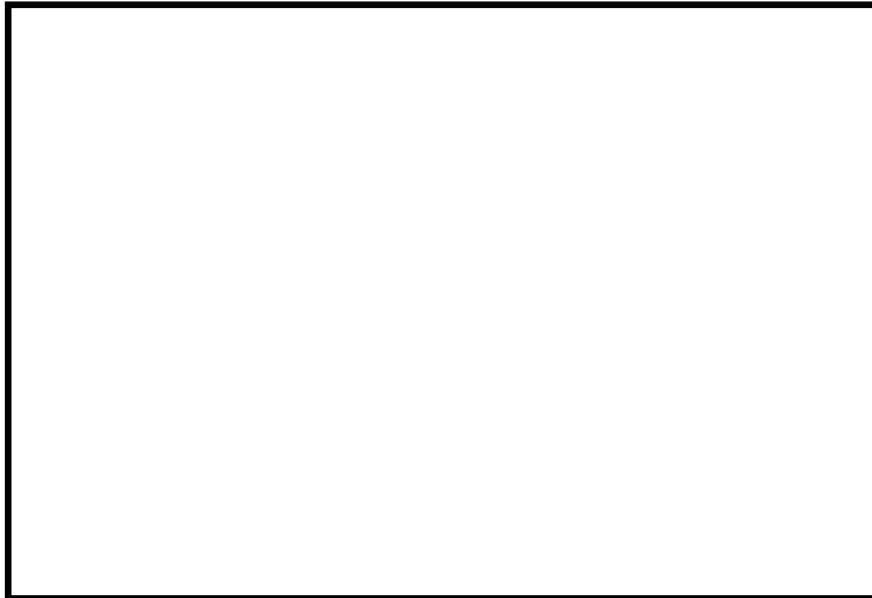
Water Around the World

Here in Washington, there sure are a lot of rainy days! That's actually very lucky for us, because we share all of our water with lots of other people, plants, and animals.

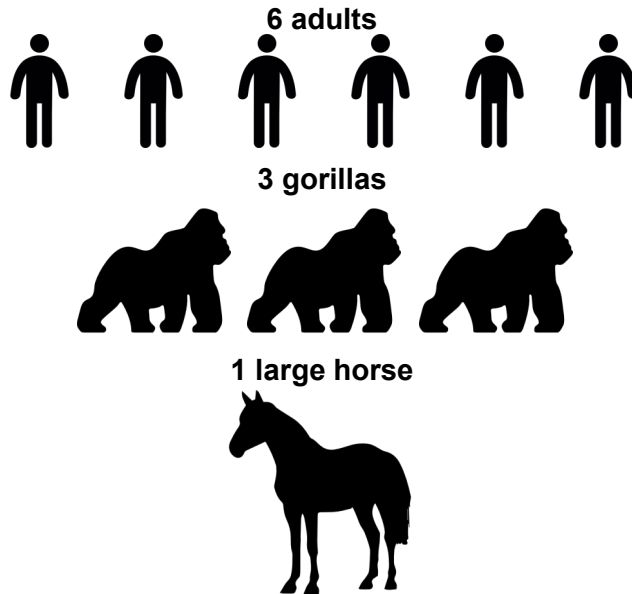


Sometimes people can forget how important that water is and start using too much. Today, we are going to look at how different people all over the world are using water and maybe figure out some ways that we can make better choices with the water that we have.

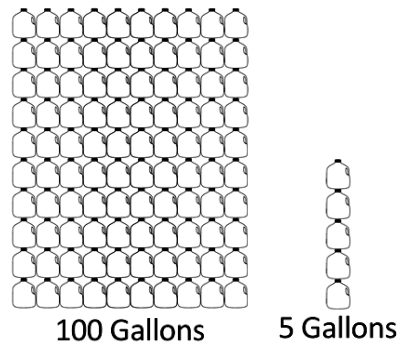
Think about a normal day in your life. Do you use a lot of water? Draw a picture showing one way that you have used water this week:



You learned how most people in America use about 100 gallons of water every day. How much water is that, really? Let's think about it. If you put all of that water on a scale to see how much it weighs, it would be about the same weight as these things;



That's a lot of water! Other people around the world need to do all of the same things with water, but what happens in places that don't have as much water as Washington? Most people around the world can't get 100 gallons of clean, fresh water. In fact, many families use only 5 gallons every day.



Not only do people have less water in other parts of the world, but they also have to go and get it themselves. Women and children often have to spend a lot of time carrying water, leaving very little time for work, school, or play!



Main Activity

5-Gallon Challenge

You have learned that a lot of families have only 5 gallons of water to use every day. How would you use that water?

Materials: Writing utensil, scissors, crayons/markers/colored pencils (optional)

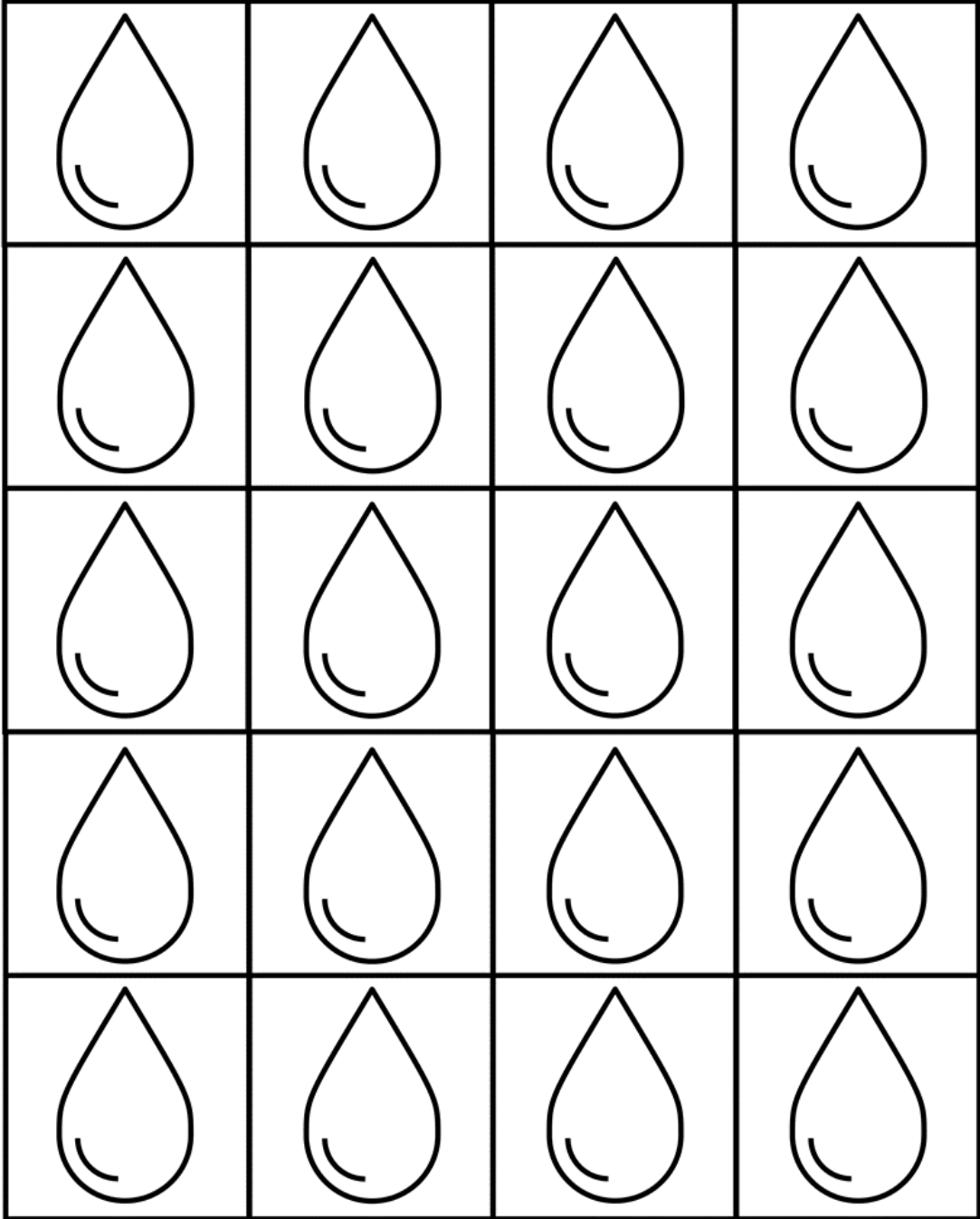
For this activity, you will have 5 gallons of water and must choose how to use it. Remember, you only have a small amount of water to work with, so you might not have enough to do all of the things you want!

1. With an adult's help, cut out the 20 water squares on the next page. Each square represents a small amount of water. Four water pieces together add up to 1 gallon of water.
 - If you can't print and cut out the pieces, you can draw your own at home.
 - You can also choose 20 small items (coins, blocks, beans, or anything else) to use instead of the water squares. As long as you have 20 pieces of something, you'll be ready!
2. Place the water pieces on the "Water Use" pictures to show how you want to use them
 - For example, if you put all 20 water squares on the picture of the bathtub, it means you want to use all of your water (5 gallons) for the bathtub. This means that you have no water left to drink or wash your clothes!
 - If you put 4 squares on the toilet, it means you want to use 1 gallon to flush the toilet.

QUESTIONS

What were the easiest things to give up? Why?

What were the hardest things to give up? Why?



PAGE LEFT BLANK INTENTIONALLY



This shower can use between 2 and 5 gallons of water every minute.



The toilet uses about 1.6 gallons of water per flush.



Most sinks use between 3 and 7 gallons of water every minute.



Washing machines use between 15 and 40 gallons of water per load.

PAGE LEFT BLANK INTENTIONALLY



Most bathtubs take over 30 gallons of water to fill.



Normal dishwashers use 3 to 6 gallons of water per load.

Optional Activity

We Need Water Challenge

Water Conservation means to save water. *You will learn more about this in tomorrow's lesson!* Saving water is very important to make sure there is always enough water for humans, plants, and animals.

Materials: Writing utensil, computer/phone/tablet, internet connection

Remember our water is something we share. Let's make a promise to save water! Below is a promise card that shows you different promises to save water. Read the promises with an adult and choose the saving water promises you want to make starting today. Mark the promises you've chosen to make and sign your name on the bottom. With an adult, post your promise card on social media to show your friends and family how you are ready to save water every day!

I promise to help save water every day!

PLEASE CHECK ALL THE WAYS YOU WILL SAVE WATER

- Take 5 minute showers.
- Turn off the faucet while I'm brushing my teeth.
- Tell an adult if I see a leaky faucet.
- Tell an adult if I see or hear a toilet that keeps running.
- Run the dishwasher and clothes washer only when they are full.

Sign your name here:

**WATER
CONSERVATION
PROMISE CARD**



MAKE A PROMISE TO SAVE WATER!



To share your work, post your challenge to Facebook and/or Instagram (with an adult) so other people in your community can learn too! Don't forget to use the hashtag #WeNeedWater and tag @weneedh20 and @naturevisionorg in your post so we can see your work!

Optional Activity

Water Teamwork

If the water line to your house stopped providing water, could you and your family work together to go outside and find water?

Materials: Writing utensil, crayons/markers/colored pencils (optional)

Imagine that all the pipes in your town disappeared! Your sink, toilet, shower, and all other water-using machines don't work anymore. The closest water source is a well that is 2 miles away! If you want to get there you will have to walk for an hour.

Below, assign a job to yourself and any family members or friends that could help. Write their name and what their job will be.

Think about:

- Who will get the water? Remember that it is far away, and water is very heavy!
- How will you carry the water? How much can one person carry at one time?
- How will you use the water?
 - Who will be in charge of...
 - Cleaning dishes?
 - Cleaning clothes?
 - Cooking?
- How long will this take for everyone to do their jobs?

<u>Family Member</u>	<u>Water Job</u>
1) _____	1) _____
2) _____	2) _____
3) _____	3) _____
4) _____	4) _____
5) _____	5) _____
6) _____	6) _____

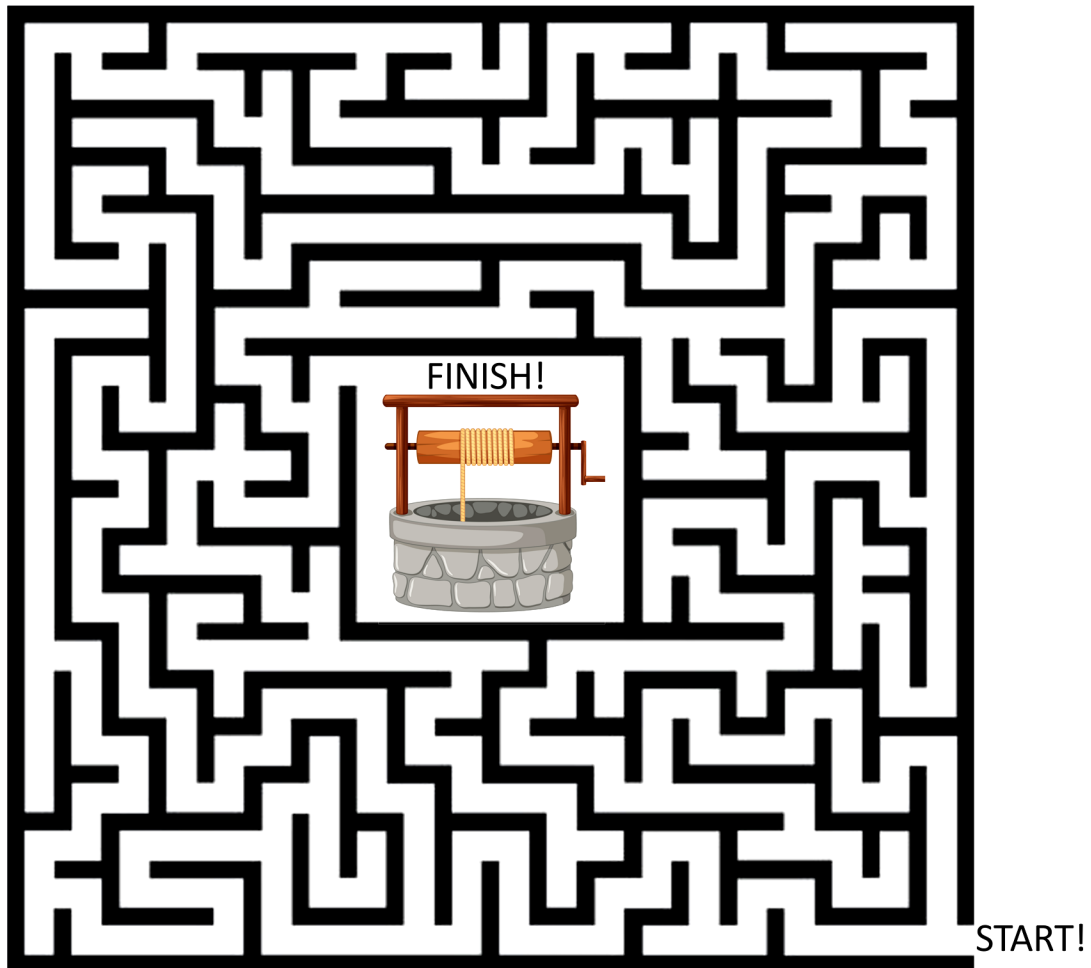
Now that you all have your jobs, draw a picture of your family fetching using water like you described:

Optional Activity

Water Well Maze

You and your family need water, and well is the only place you can find it! Make your way through this maze so that you can collect as much water as you can carry!

Materials: Writing utensil



DAY 5

Stewardship

Stewardship is a big word that means taking care of something. This week we learned a lot about nature. We want to take care of it by taking care of things like water, our habitat, and other things that other living things need to survive. Another big word is **conservation**, which means taking care of nature and doing our best to make sure that we do positive things for the world.

When we take good care of water, we end up helping every living thing in nature. By making smart choices and finding ways to use less water, we make sure that every person, plant, and animal is able to get exactly what they need to live. Nature gives us so many wonderful things, so we should do everything that we can to protect it!



Vocabulary

Conservation: Protecting the natural world, especially by making smart choices about our natural resource use

Stewardship: Taking care of something; being a protector

Main Activity

Hoses and Ladders

Have you ever played the classic game “Snakes and Ladders”? Now you can try out a new version that’s all about making smart water choices!

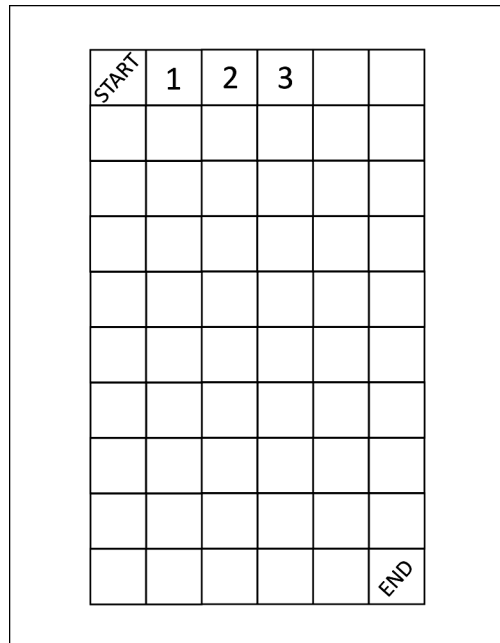
Materials: Small items for player pieces (toys, coins, etc), dice, or coins

If you can print it out, play the game on the board found on the next page and follow the instructions below. This wonderful board was designed by the Muswellbrook Shire Council all the way in Australia! No matter where in the world you go, it is important to save water!

1. Whoever used water most recently gets to go first.
2. On your turn, roll 2 dice and move that number of spaces.
 - If you don't have dice, you can find 12 coins and toss them all at once. Count the number of 'Heads' and move that many spaces.
3. If you land on a space connected to a ladder, climb up the ladder to the other space it is connected to!
 - Ladders always send you up, never down.
4. If you land on a space connected to a hose, follow the hose down to the other space it is connected to.
 - Hoses always send you down, never up.
5. The first player to reach the “FINISH!” spot is the winner! (Although everyone in nature is a winner when we save water!)

If you are unable to print the board, you can draw your own! Follow the instructions below:

1. On a plain piece of paper, draw 60 squares.
2. Write the word “START” in the first square
3. Write the word “END” in the last square
4. Write the number “1” in the second square, right next to “Start.” Continue writing numbers in each square, counting all the way up to “58”
5. When you're done, your paper should look like the image next to the right.
6. You are now ready to play! Whenever you land on a space, check the number and follow the instructions on the page that says “BOARD SPACES”



BE WATERWISE!



muswellbrook
shire council

GO UP THE LADDERS

AND DOWN THE HOSES

START

FINISH!

1. You use the **HALF FLUSH** on the toilet when you can!
- 2.
3. You wash your pet with a bucket!
- 4.
5. You use **WATER EFFICIENT** products!
6. You plant succulent plants that need little water!
7. You have **LONG SHOWERS!**
8. You have small dishwasher loads!
- 9.
10. You wash your pet with a running hose!
- 11.
- 12.
- 13.
- 14.
- 15.
16. You use the broom to brush leaves from the verandah!
17. You report leaking taps & pipes!
- 18.
19. You water your garden on rainy days!
20. You hose leaves off the verandah!
21. You wash your paint brushes in a container of water!
- 22.
23. You let the tap run when washing vegetables!
- 24.
- 25.
26. You hose leaves off the verandah!
- 27.
28. You water your garden on rainy days!
- 29.
- 30.
31. You report leaking taps & pipes!
- 32.
33. You always use full flush on the toilet!
34. You use a bucket to wash the car!
- 35.
- 36.
37. You let the tap run when washing vegetables!
38. You wash your paint brushes under running water!
- 39.
40. You use the broom to brush leaves from the verandah!
- 41.
- 42.
- 43.
- 44.
45. You take **SHORT SHOWERS!**
46. You turn the tap **OFF** when brushing your teeth!
- 47.
48. You **OVERWATER** your garden!
49. You have a dripping tap!
- 50.
- 51.
- 52.
- 53.
- 54.
55. You leave the tap on while brushing your teeth!
- 56.
- 57.
- 58.

PAGE LEFT BLANK INTENTIONALLY

BOARD SPACES PART 1

1. Stay where you are!
2. You use the HALF FLUSH on the toilet when you can! Move up to space 22.
3. Stay where you are!
4. You wash your pet with a bucket! Move up to space 21.
5. Stay where you are!
6. Stay where you are!
7. You plant succulent plants that need little water! Move up space 17.
8. Stay where you are!
9. Stay where you are!
10. You have small dishwasher loads! Move down to space 6.
11. Stay where you are!
12. Stay where you are!
13. You wash your pet with a running hose! Move down to space 9.
14. Stay where you are!
15. Stay where you are!
16. You have LONG SHOWERS! Move down to space 6.
17. Stay where you are!
18. Stay where you are!
19. You use WATER EFFICIENT products! Move up to space 43.
20. Stay where you are!
21. Stay where you are!
22. Stay where you are!
23. You wash your paint brushes in a container of water! Move up to space 27.
24. Stay where you are!
25. Stay where you are!
26. You hose leaves off the driveway! Move down to space 1.
27. Stay where you are!
28. Stay where you are!
29. You water your garden on rainy days! Move down to space 5.

BOARD SPACES PART 2

30. Stay where you are!
31. Stay where you are!
32. You REPORT leaking taps and pipes! Move up to space 42.
33. You always use full flush on the toilet! Move down to space 18.
34. You use a bucket to wash the car! Move up to space 40.
35. Stay where you are!
36. Stay where you are!
37. Stay where you are!
38. You let the tap run when washing vegetables! Move down to space 35.
39. You wash your paint brushes under running water! Move down to space 37.
40. Stay where you are!
41. You use the broom to brush leaves from the driveway! Move up to space 58.
42. Stay where you are!
43. Stay where you are!
44. Stay where you are!
45. Stay where you are!
46. You take SHORT SHOWERS! Move up to space 53.
47. You turn the tap OFF when brushing your teeth! Move up to space 51.
48. Stay where you are!
49. You OVERWATER your garden! Move down to space 24.
50. Stay where you are!
51. Stay where you are!
52. You have a dripping tap! Move down to space 45.
53. Stay where you are!
54. Stay where you are!
55. Stay where you are!
56. You leave the tap on while brushing your teeth! Move down to space 21.
57. Stay where you are!
58. Stay where you are!

Optional Activity

We Need Water Challenge

There are so many ways to save, protect, and care for our water. At the end of every daily lesson, we will be giving a challenge to help you show off what you've learned.

Materials: (Optional) writing utensil, crayons/markers/colored pencils, computer/phone/tablet, internet connection

Using what you've learned this week, it's time to make your own #WeNeedWater challenge! Think about all of the things we learned this week. What new thing can you do to share what you now know or new ways you've learned to save water?

To share your work, post your challenge to Facebook and/or Instagram (with an adult) so other people in your community can learn, too! Don't forget to use the hashtag #WeNeedWater and tag @weneedh20 and @naturevisionorg in your post so we can see your work!

Optional Activity

Water Use I-Spy

There are so many ways that people, plants, and animals use water! Check out a fun image online and try to spot some of the hidden details.

Materials: Computer/phone/tablet, internet connection

With an adult, go to the following link to look at the I-Spy page:

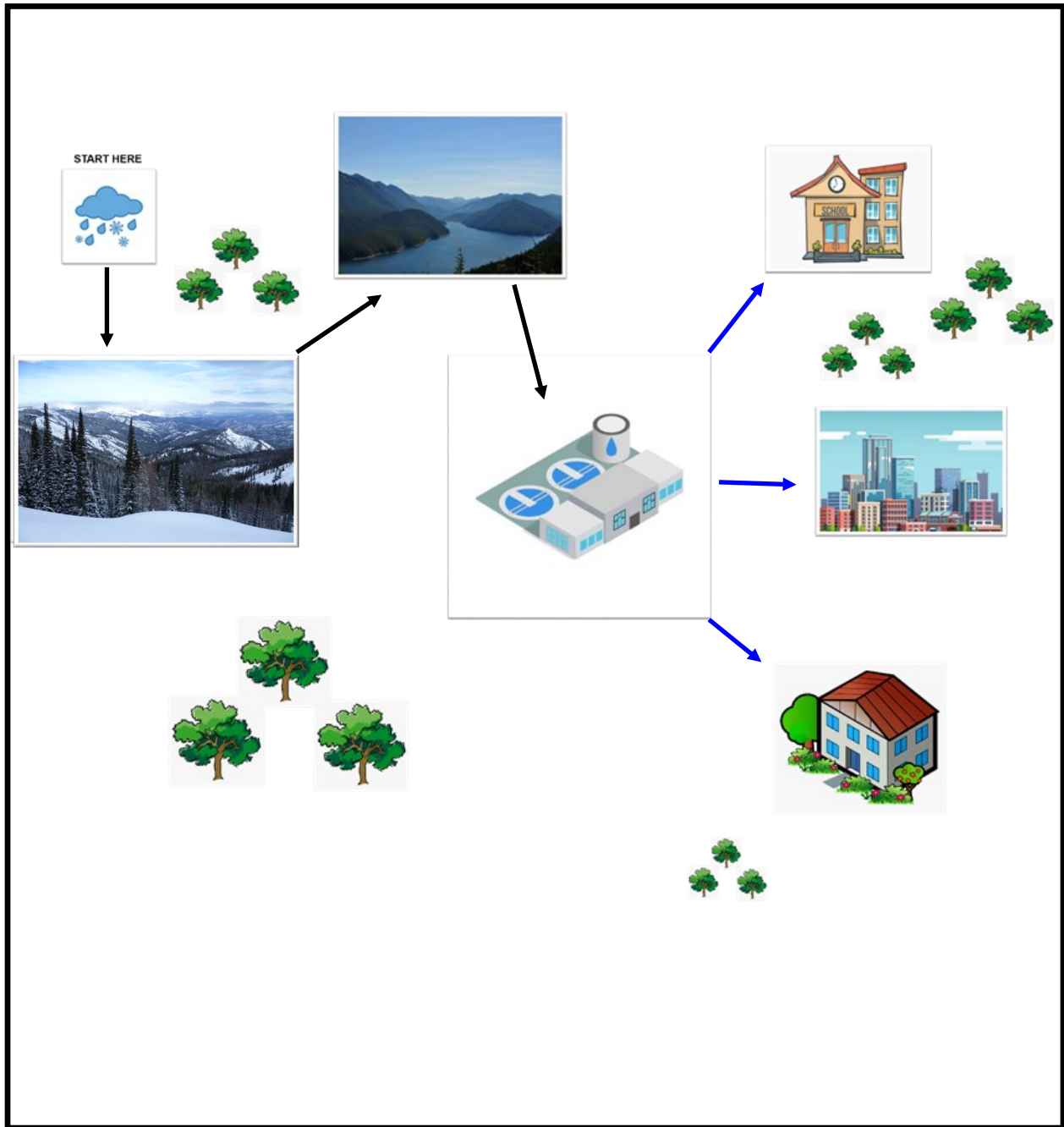
https://water.usgs.gov/outreach/Posters/water_use/images/WaterUseGradeschFront.jpg

In that picture, see if you can spot:

- Somebody fishing
- Ducks in a pond
- People playing a game
- Fire hydrant
- Somebody washing a car
- Pipes
- A hose
- School
- A scarecrow
- People camping

Answer Key

Day 2 Main Activity: The Water Journey



Answer Key

Day 2 Optional Activity: Drinking Water Word Search

Water Treatment Plant Word Search

J G S O Y C K Z T S
W R B J N Y L K H J
L I R F R P I E Y G
D V Z R X K G A A P
R E O P W E L L N N
I R E P L L A K E N
N F L I I A P N F F
K L C P Z U N Z W S
M S V E Q B T T W X
E H N Z J W A T E R

Plant
Pipe

Water
Well

Clean
Lake

River
Drink