



## Lesson Plan: Water

**Grade Level:** 3

**Subject:** Earth Science

**Duration:** 45–60 min

**NGSS 3-ESS2-1:** Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.

### Learning Objectives

By the end of this lesson, students will be able to:

- **Identify** the three states of water: solid, liquid, and gas
- **Describe** the water cycle and its key processes, including evaporation, condensation, and precipitation



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- Printed copies of the Study Guide (<https://newpathworksheets.com/api/guide/study-guide-science-grade-3-water.pdf>)
- Water Concepts Worksheet (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-3-water-0.pdf>)
- Water Usage Worksheet (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-3-water-1.pdf>)
- Water Cycle Assessment (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-3-water-2.pdf>)



- Vocabulary matching worksheet  
(<https://newpathworksheets.com/api/vocabulary/vocabulary-science-grade-3-water-1.pdf>)

### Lesson Procedure

#### Step 1: Introduction (10 minutes)

- Engage students by asking: 'Why is water so important that we look for it on other planets?'
- Show the 'Water on Earth' section from the Study Guide to visualize water distribution.  
(<https://newpathworksheets.com/api/guide/study-guide-science-grade-3-water.pdf>)

#### Step 2: Direct Instruction (15 minutes)

- Read the Study Guide as a class, focusing on the three states of water and the water cycle diagram.
- ~~Explain the processes of evaporation, condensation, and precipitation using the diagram in~~



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- Administer the Water Cycle Assessment to evaluate student mastery of the topic.  
(<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-3-water-2.pdf>)
- Review the answers as a class to clarify any remaining misconceptions.

### Differentiation Strategies

For advanced learners:



- Research how water treatment plants work and present a simple diagram of the process.
- Create a poster illustrating ways to conserve water at home and at school.

**For learners needing support:**

- Provide a visual aid or anchor chart showing the water cycle with simple labels.
- Allow students to work in pairs to complete the worksheets, reading questions aloud.

 **Extension Activities**

- Create a 'Water Cycle in a Bag' experiment using a ziplock bag and water taped to a sunny window.
- Write a short story from the perspective of a water droplet traveling through the water cycle.
- Keep a water journal for one day to track all the ways the student uses water.



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## WATER

All living things need water to survive and to grow. Living things need water for different reasons in order to survive. For example, plants need water to make their own food, while fish need to live in water.

### Water is Important in Humans

The human body is made up of about **2/3** water.

Water is used in the human body in many ways such as:

- Carries away waste materials
- Helps digest food
- Helps blood carry nutrients and important materials
- Warms and cools your body as needed: If your body gets too hot, you will start to sweat. The sweat takes some heat out of your body, cooling your



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### Lesson Checkpoint: What is one way water helps our bodies?

### Water on Earth

We use water on the Earth for many reasons too. For example, fishermen in particular use water to catch fish and sea food for people to eat. Farmers use water, including rainfall, to water their crops. Without water, their crops would die. All living things need water in order to survive. In order for people to survive, they must drink water.

Water is used by industries to make a variety of products such as paper and steel. Water is also used to make electricity. Rushing water is used to turn turbines which are special machines shaped like windmills, that have blades that turn by water.

About 75% of the Earth is covered by water, which is mostly salt water.

**Saltwater** has salt in it whereas **freshwater** has very little salt. The Earth has less freshwater, which is mostly in the form of ice in the North and South poles. Most lakes are freshwater. Some freshwater is underground. This water is called groundwater. There are also freshwater streams, rivers, and lakes.



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### **Lesson Checkpoint: What is groundwater?**

#### **Three States of Water**

Water comes in three forms: liquid, solid, and gas. Liquid water is the water we drink, solid water is known as ice, and water vapor is water in a gas form. The process of a liquid becoming a gas is called **evaporation**. **Condensation** is the process of a gas turning back into a liquid.

## The Water Cycle



The diagram illustrates the Water Cycle. At the top, a sun is shown with an arrow pointing upwards labeled "Vapor", indicating evaporation. Below the sun, clouds are labeled "Clouds". From the clouds, an arrow points downwards labeled "Rain & Snow", indicating precipitation. In the foreground, a group of diverse children are standing on a grassy hill. Above them are four thought bubbles containing various school-related icons: a cube, a microscope, a triangle, a chemistry flask, a balance scale, an atom model, a pie chart, a bar graph, and a calculator.

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a gas into the air. Water vapor rises into the air in the atmosphere and forms either water droplets or ice crystals. These droplets or crystals eventually form clouds which water falls from as precipitation.

**Precipitation** is water that falls to the earth in the form of rain, snow, sleet, or even hail. Precipitation either seeps into the ground, forming groundwater, or falls into rivers, streams, lakes, or oceans. Then the water cycles begin again right away.



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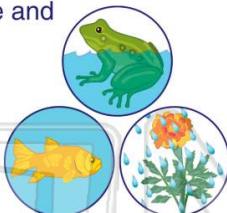


Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1

\_\_\_\_\_ living things need water to survive and to grow.

- A All
- B Several
- C Few
- D Many



2

Plants need water \_\_\_\_\_.

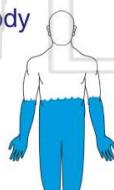


- A because rain falls from the sky
- B to make their own food
- C because water vapor forms clouds
- D because water is found in the ground

3

\_\_\_\_\_ of a human body is made up of water.

- A Very little
- B About  $\frac{1}{6}$
- C About 1



4

Water is used in the human body in many ways. Which of these is not a way water helps the human body?

- A It carries waste away.
- B It helps keep blood flowing.



5



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- B fireman
- C fisherman
- D lawyer

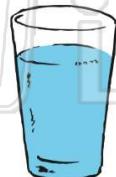


- C New plants would grow.
- D The crops would grow even taller.

9

All living things need water in order to survive. What must people do in order to **survive**?

- A drink water
- B swim
- C wash their car
- D play in a sprinkler



10

Water is used by **industries** to make a variety of products such as \_\_\_\_\_ and steel.



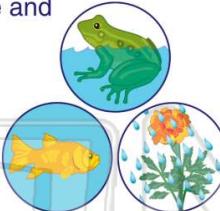
- A sand
- B flags
- C paper
- D shoes



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 \_\_\_\_\_ living things need **water** to survive and to grow.

**A** All  
**B** Several  
**C** Few  
**D** Many



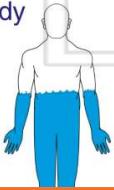
2 **Plants** need water \_\_\_\_\_.

**A** because rain falls from the sky  
**B** to make their own food  
**C** because water vapor forms clouds  
**D** because water is found in the ground



3 \_\_\_\_\_ of a human body is made up of **water**.

**A** Very little  
**B** About  $\frac{1}{6}$   
**C** About 1



4 Water is used in the human body in many ways. Which of these is **not** a way water helps the human body?

**A** It carries waste away.  
**B** It helps keep blood flowing.



5



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**B** fireman  
**C** fisherman  
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**C** New plants would grow.  
**D** The crops would grow even taller.

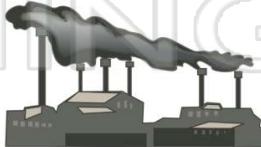
9 All living things need water in order to survive. What must people do in order to **survive**?

**A** drink water  
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10 Water is used by **industries** to make a variety of products such as \_\_\_\_\_ and steel.

**A** sand  
**B** flags  
**C** paper  
**D** shoes





Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Water can be used to make **electricity**.  
Rushing water is used to turn \_\_\_\_\_ which are special machines shaped like windmills with blades that are turned by the water.

**A** rudders    **C** fans  
**B** oars    **D** turbines



About how much of the **earth** is covered by water?

**A** 25%  
**B** 50%  
**C** 10%  
**D** 70%



3 \_\_\_\_\_ rises as an **invisible gas** from the water on earth into the air.

**A** Sleet  
**B** Snow  
**C** Water vapor



4 **Saltwater** has salt in it whereas \_\_\_\_\_.

**A** freshwater has no salt at all  
**B** freshwater has a lot of salt too



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**C** make the water colder  
**D** replenish or add to the earth's groundwater

9 Water comes in **three forms**:

**A** liquid, solid, and gas.  
**B** liquid, steam, and water.  
**C** solid, gas, and streams.  
**D** gas, rivers, and vapors.



Liquid water is the water we drink, solid water is known as ice, and **water vapor** is water in a \_\_\_\_\_ form.

**A** liquid  
**B** gas  
**C** solid  
**D** cold





Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Water can be used to make **electricity**. Rushing water is used to turn \_\_\_\_\_ which are special machines shaped like windmills with blades that are turned by the water.

**A** rudders    **C** fans  
**B** oars    **D** turbines

**D**

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**D**

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**C**

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**C**

5

**D**

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**D**

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**A**

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**A** liquid  
**B** gas  
**C** solid  
**D** cold

**B**

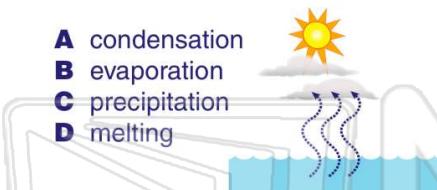


Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1

What do we call the **process** in which liquid becomes a gas?

- A** condensation
- B** evaporation
- C** precipitation
- D** melting



2

\_\_\_\_\_ is the **process** of a gas turning into a liquid.

- A** Condensation
- B** Evaporation
- C** Precipitation
- D** Water vapor



3

The movement and recycling of the **earth's water** is called the \_\_\_\_\_. Water moves from the earth to the air and back to earth again.

- A** water cleaning
- B** water system



4

Water changes states, or forms, when moving through the **water cycle**. It is in liquid form in the waters on earth and then the sun helps it \_\_\_\_\_ into the air.

5



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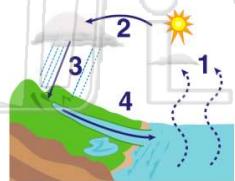
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9

What is the **third stage** of the **water cycle** shown in this diagram?

- A** evaporation
- B** condensation
- C** precipitation
- D** water flow



10

**Water** often has dirt and germs in it so it needs to be \_\_\_\_\_ in **water treatment plants** before it is pumped through pipes to our homes.

- A** warmed
- B** turned into ice
- C** cleaned
- D** changed to the color blue



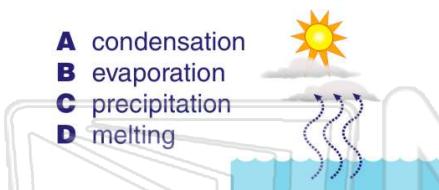


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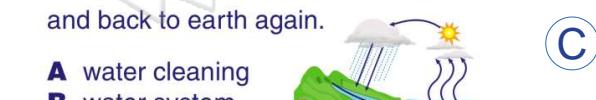
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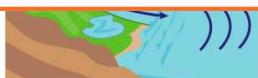


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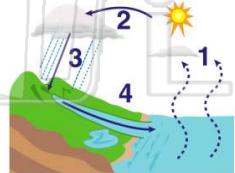
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Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**Match each of the following terms to its definition:**

Condensation

Water vapor

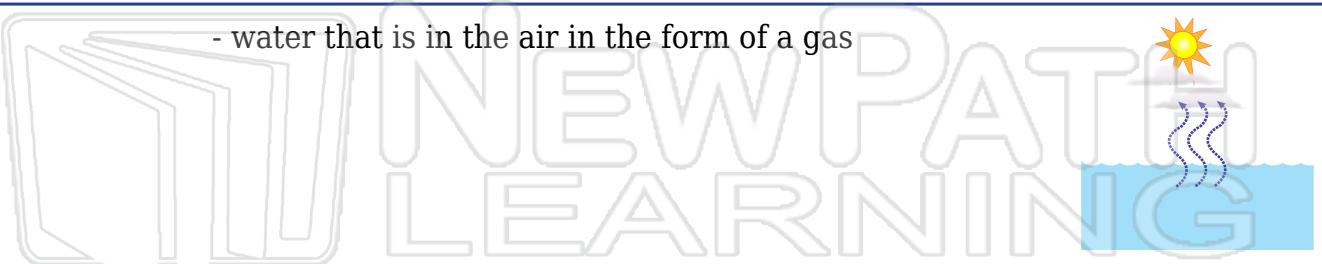
Evaporation

Water cycle

Ground water

Precipitation

1. - water that is in the air in the form of a gas



2. - the movement and recycling of the Earth's water from the Earth's surface to the atmosphere and back again



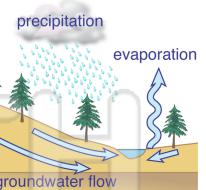
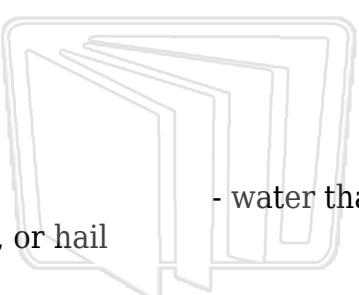
3. becomes



4. evapo

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5. - water that collects in the soil, sand and rocks below the Earth's surface



6. - water that falls to the earth in the form of rain, snow, sleet, or hail





Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

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Condensation

Water vapor

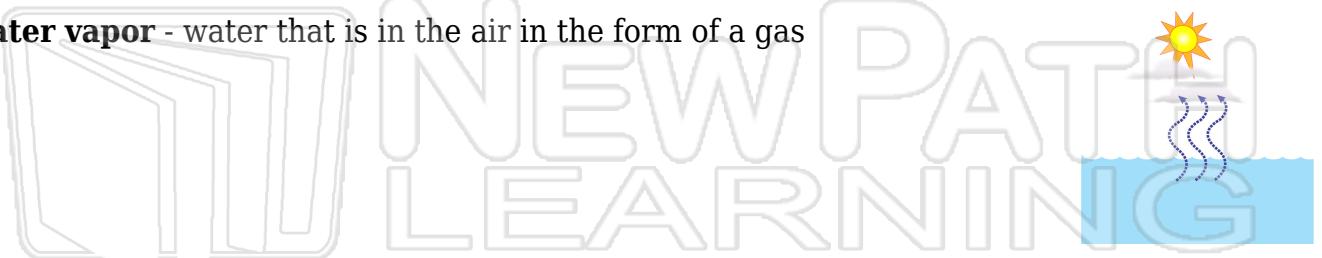
Evaporation

Water cycle

Ground water

Precipitation

1. **water vapor** - water that is in the air in the form of a gas



2. **water cycle** - the movement and recycling of the Earth's water from the Earth's surface to the atmosphere and back again



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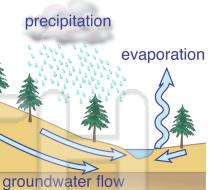
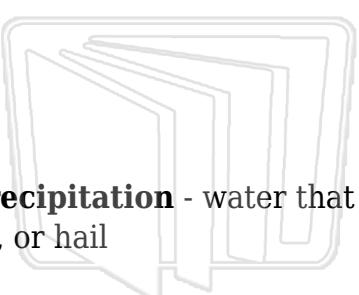


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5. **ground water** - water that collects in the soil, sand and rocks below the Earth's surface



6. **precipitation** - water that falls to the earth in the form of rain, snow, sleet, or hail

