

www.srh.noaa.gov/jetstream/atmos/11_whatacycle_aquifers.pdf

There are over 35 lesson plans in the National Weather Service education website JetStream - An Online School for Weather, a free resource at www.srh.weather.gov.

You remain in the aquifer.

STAY where you are!

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You remain in the aquifer.

STAY where you are!

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



After a long time you seep into
the ocean.

Go to the **Oceans**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You pop up as an underground spring
and supply water to a lake.

Go to the **Lakes & Rivers**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You remain in the aquifer.

STAY where you are!

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream

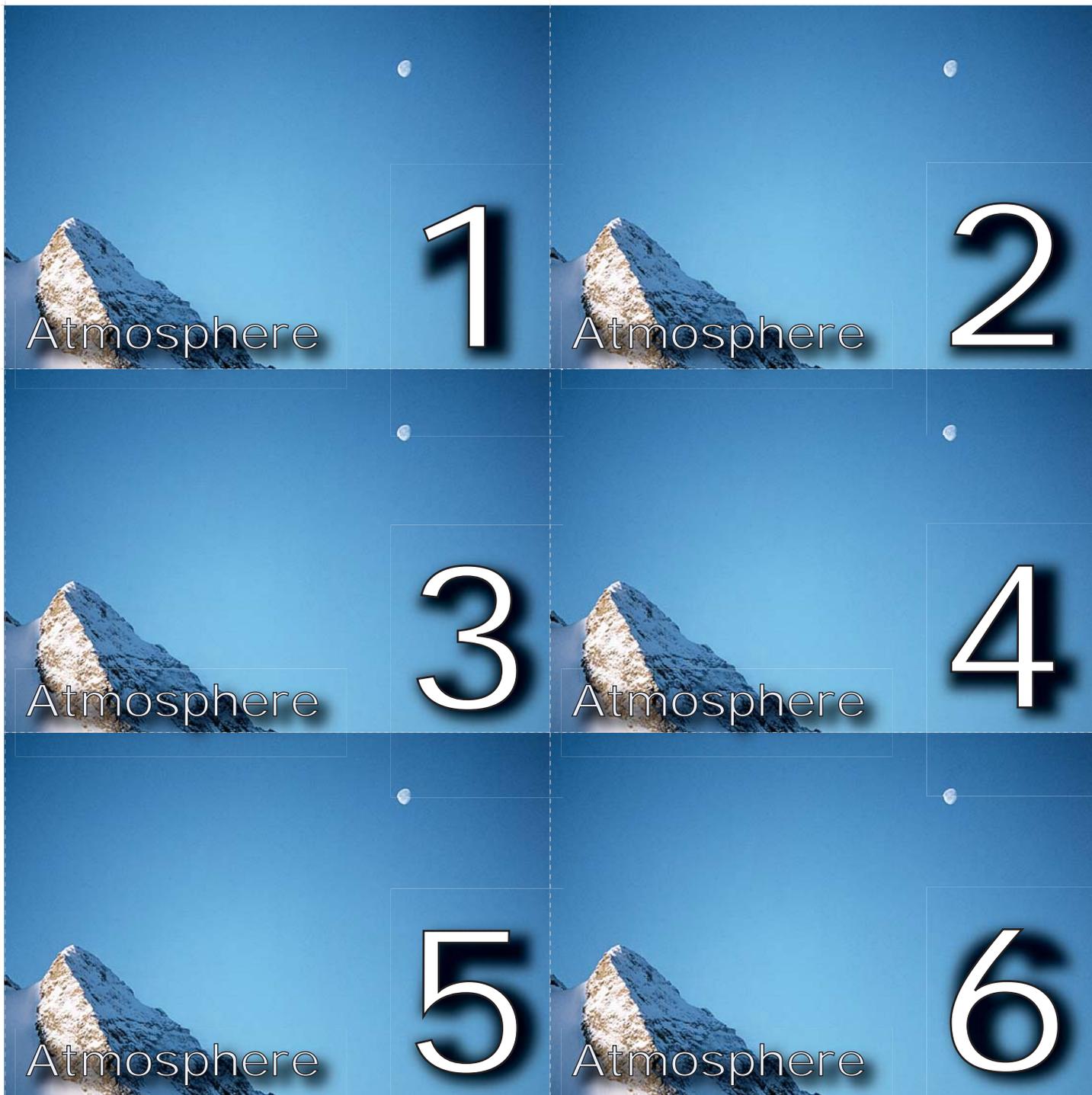


You pop up as a spring on the
earth's surface and make
the ground wet.

Go to the **Ground**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream





www.srh.noaa.gov/jetstream/atmos/II_whatacycle_atmosphere.pdf

Clear skies and a cool night caused you to change from a gas (water vapor) to a liquid (water) and you appear as dew on grass.

Go to the **Ground**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



An updraft carries you higher into the atmosphere where you become cooler and **CONDENSE** into a cloud.

Go to the **Clouds**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You float in the atmosphere as a gas (water vapor) while carried along by the wind.

STAY where you are!

JetStream - An Online School for Weather
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Clear skies and a cold night caused you to change from a gas (water vapor) to a solid (ice crystal) and you appear as frost on grass. The process is called **DEPOSITION**.

Go to the **Ground**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You float in the atmosphere as a gas (water vapor) while carried along by the wind.

STAY where you are!

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



The air around you cools and you **CONDENSE** into a cloud.

Go to the **Clouds**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream





www.srh.noaa.gov/jetstream/atmos/ll_whatacycle_clouds.pdf

You move into an area where the air is drier. You **EVAPORATE** as you change from a liquid (water droplet) to a gas (water vapor).

Go to the **Atmosphere**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You combine with other water droplets to grow larger and larger. You reach a size that cannot be supported by rising air and therefore fall as rain over the ocean.

Go to the **Ocean**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You combine with other water droplets to grow larger and larger. You reach a size that cannot be supported by rising air and therefore fall as rain over land. Too much rain fell so you **RUNOFF** into a river.

Go to the **Rivers & Lakes**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You combine with other water droplets to grow larger and larger. You reach a size that cannot be supported by rising air and therefore fall as rain over land and **INFILTRATE** into the ground.

Go to the **Ground**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You freeze into an ice crystal and combine with other ice crystals to form a snow flake. As the snow flake grows it becomes too heavy to be supported by the rising air and you fall to the earth.

Go to **Snow**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream

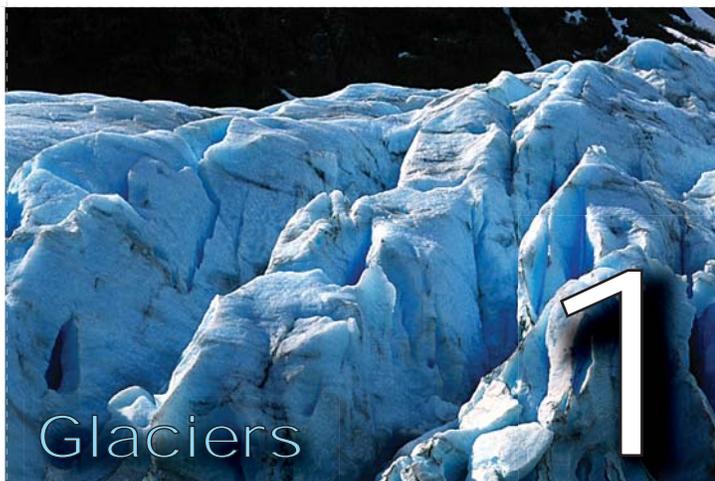


As a cloud, you are constantly changing shape but otherwise you continue to float in the atmosphere.

STAY where you are!

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream





www.srh.noaa.gov/jetstream/atmos/II_whatacycle_glaciers.pdf

You break off (calve) from the glacier
and become an iceberg in the ocean.
You melt.

Go to the **Ocean**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You change from a solid (ice) to a
gas (water vapor) through the
process of **SUBLIMATION**.

Go to the **Atmosphere**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You melt and **PERCOLATE** into the
underground water.

Go to the **Aquifer**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You remain locked in ice in the glacier.

STAY where you are!

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You **INFILTRATE** into the ground
making it moist.

Go to the **Ground**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream

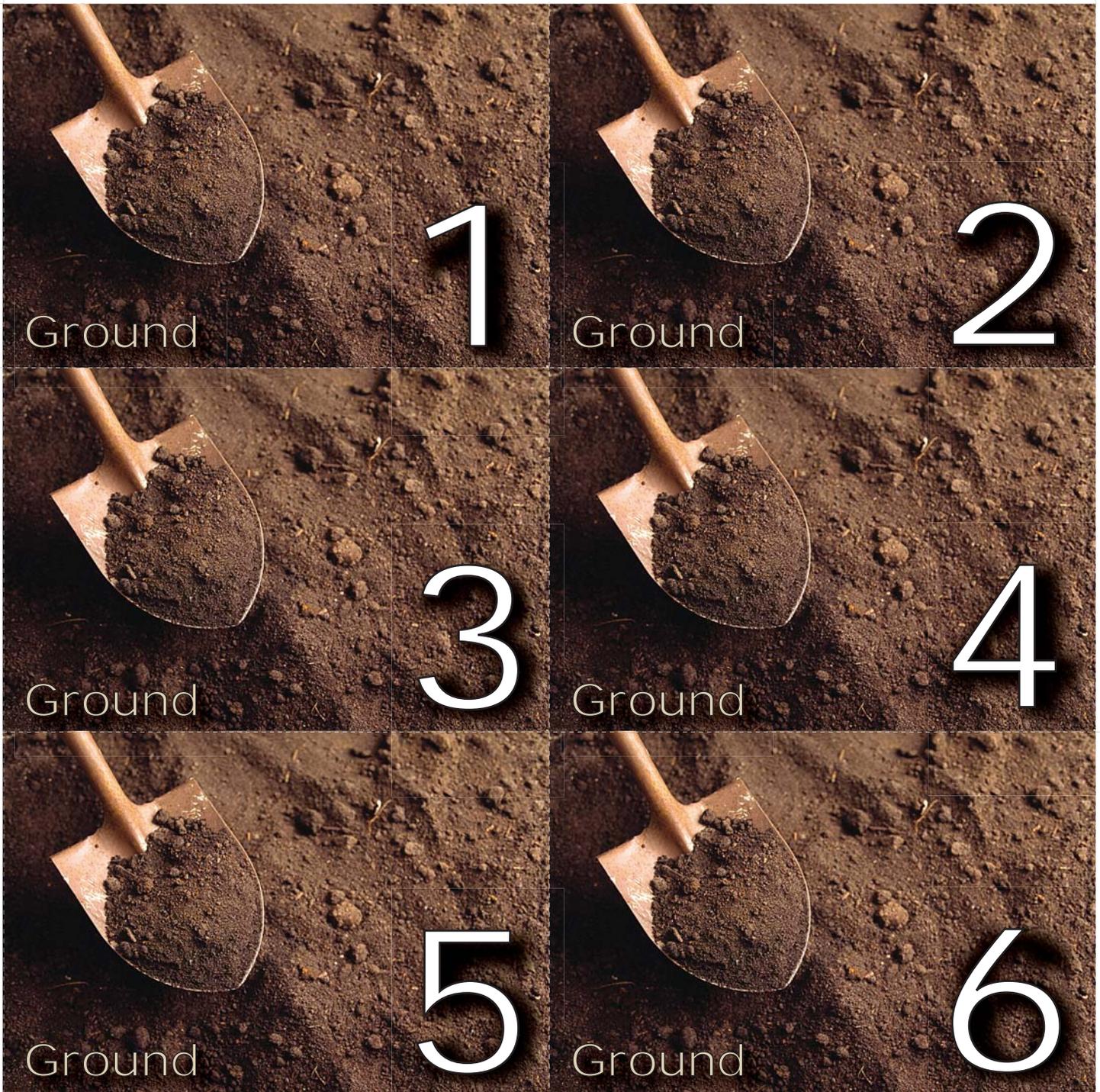


You melt and become **RUNOFF**.

Go to the **Lakes & Rivers**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream





www.srh.noaa.gov/jetstream/atmos/ll_whatacycle_ground.pdf

You are absorbed into the root of a tree.

Go to **Plants**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You **PERCOLATE** deep into the earth.

Go to **Aquifers**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You change from a liquid (water) to a gas (water vapor). This process is called **EVAPORATION**.

Go to the **Atmosphere**

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You change from a liquid (water) to a gas (water vapor). This process is called **EVAPORATION**.

Go to the **Atmosphere**

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You change from a liquid (water) to a gas (water vapor). This process is called **EVAPORATION**.

Go to the **Atmosphere**

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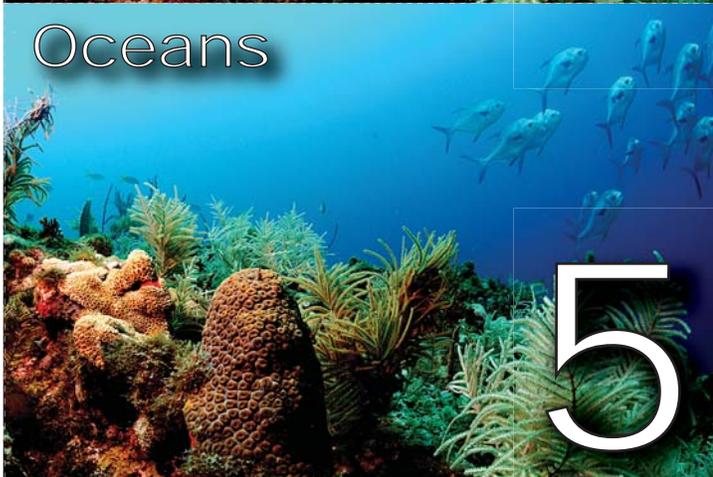
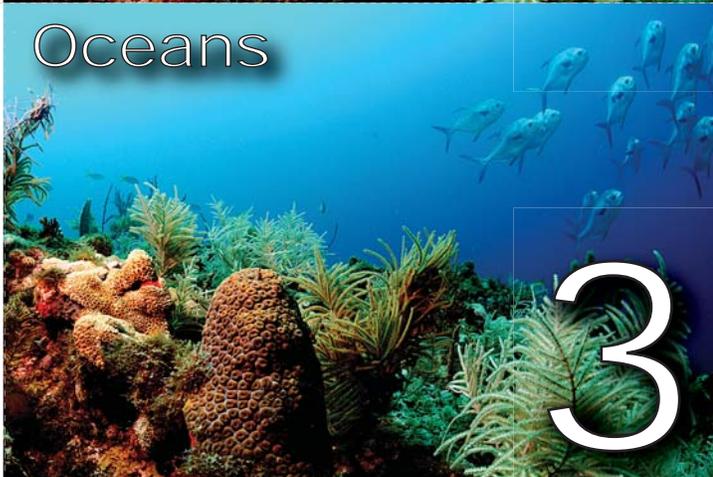


You are absorbed into the root of a blade of grass.

Go to **Plants**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream





www.srh.noaa.gov/jetstream/atmos/II_whatacycle_oceans.pdf

You float in the ocean.

STAY where you are!

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



With heating from the sun you change from a liquid (water) to a gas (water vapor) by the process of **EVAPORATION**.

Go to the **Atmosphere**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You float in the ocean.

STAY where you are!

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With heating from the sun you change from a liquid (water) to a gas (water vapor) by the process of **EVAPORATION**.

Go to the **Atmosphere**

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You float in the ocean.

STAY where you are!

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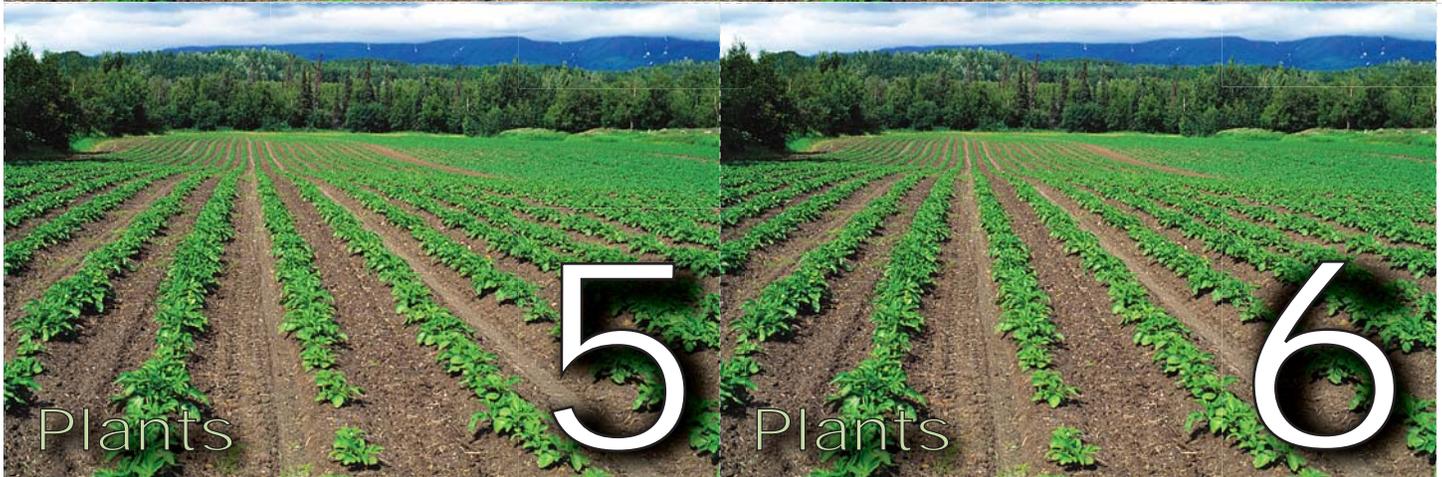


You float in the ocean.

STAY where you are!

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www.srh.noaa.gov/jetstream





www.srh.noaa.gov/jetstream/atmos/II_whatacycle_plants.pdf

You move as water from the roots to the leaves of the plant then evaporate into the atmosphere. This process is called **TRANSPIRATION**.

Go to the **Atmosphere**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You move as water from the roots to the leaves of the plant then evaporate into the atmosphere. This process is called **TRANSPIRATION**.

Go to the **Atmosphere**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You are used by the plant to move necessary minerals to the parts of the plants that require them and for photosynthesis.
You remain in the plant.

STAY where you are!

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You move as water from the roots to the leaves of the plant then evaporate into the atmosphere. This process is called **TRANSPIRATION**.

Go to the **Atmosphere**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You move as water from the roots to the leaves of the plant then evaporate into the atmosphere. This process is called **TRANSPIRATION**.

Go to the **Atmosphere**

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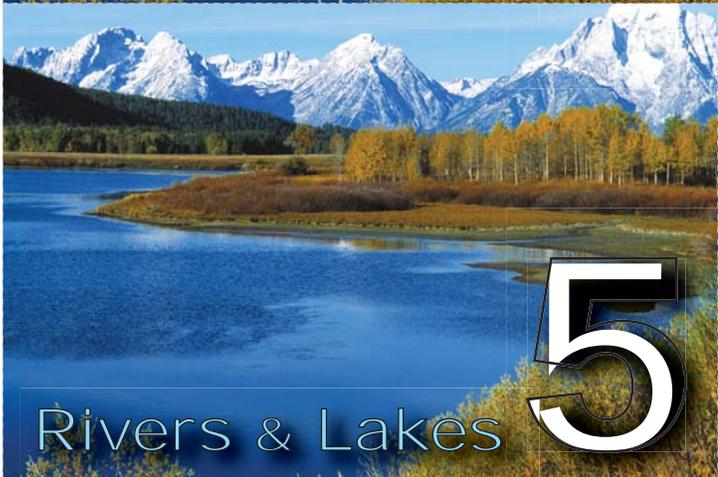


You move as water from the roots to the leaves of the plant then evaporate into the atmosphere. This process is called **TRANSPIRATION**.

Go to the **Atmosphere**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream





www.srh.noaa.gov/jetstream/atmos/ll_whatacycle_rivers.pdf

You flow into the ocean.

Go to the **Ocean**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You percolate into the groundwater (aquifer).

Go to the **Aquifer**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



A dry air mass combined with heating from the sun causes **EVAPORATION**.

Go to the **Atmosphere**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You **INFILTRATE** into the ground.

Go to the **Ground**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You flow into the ocean.

Go to the **Ocean**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You continue to flow from lakes to rivers.

STAY where you are!

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream





www.srh.noaa.gov/jetstream/atmos/ll_whatacycle_snow.pdf

You melt and ***RUNOFF*** into a small stream, then a river and after that a lake.

Go to the **Rivers & Lakes**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You melt and ***INFILTRATE*** into the ground making it wet and muddy.

Go to the **Ground**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You change from a solid (ice crystals) to a gas (water vapor). This process is called ***SUBLIMATION***.

Go to the **Atmosphere**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You melt and ***RUNOFF*** into a small stream, then a river and after that a lake.

Go to the **Rivers & Lakes**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



You melt and ***INFILTRATE*** into the ground making it wet and muddy.

Go to the **Ground**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream



More and more snow falls on you and you get compacted into ice.

Go to the **Glaciers**

JetStream - An Online School for Weather
www.srh.noaa.gov/jetstream

