



[www.srh.noaa.gov/jetstream/atmos/ll\\_whatacycle\\_aquifers.pdf](http://www.srh.noaa.gov/jetstream/atmos/ll_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](http://www.srh.weather.gov).

You remain in the aquifer.

**STAY** where you are!

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://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](http://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](http://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](http://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](http://www.srh.noaa.gov/jetstream)

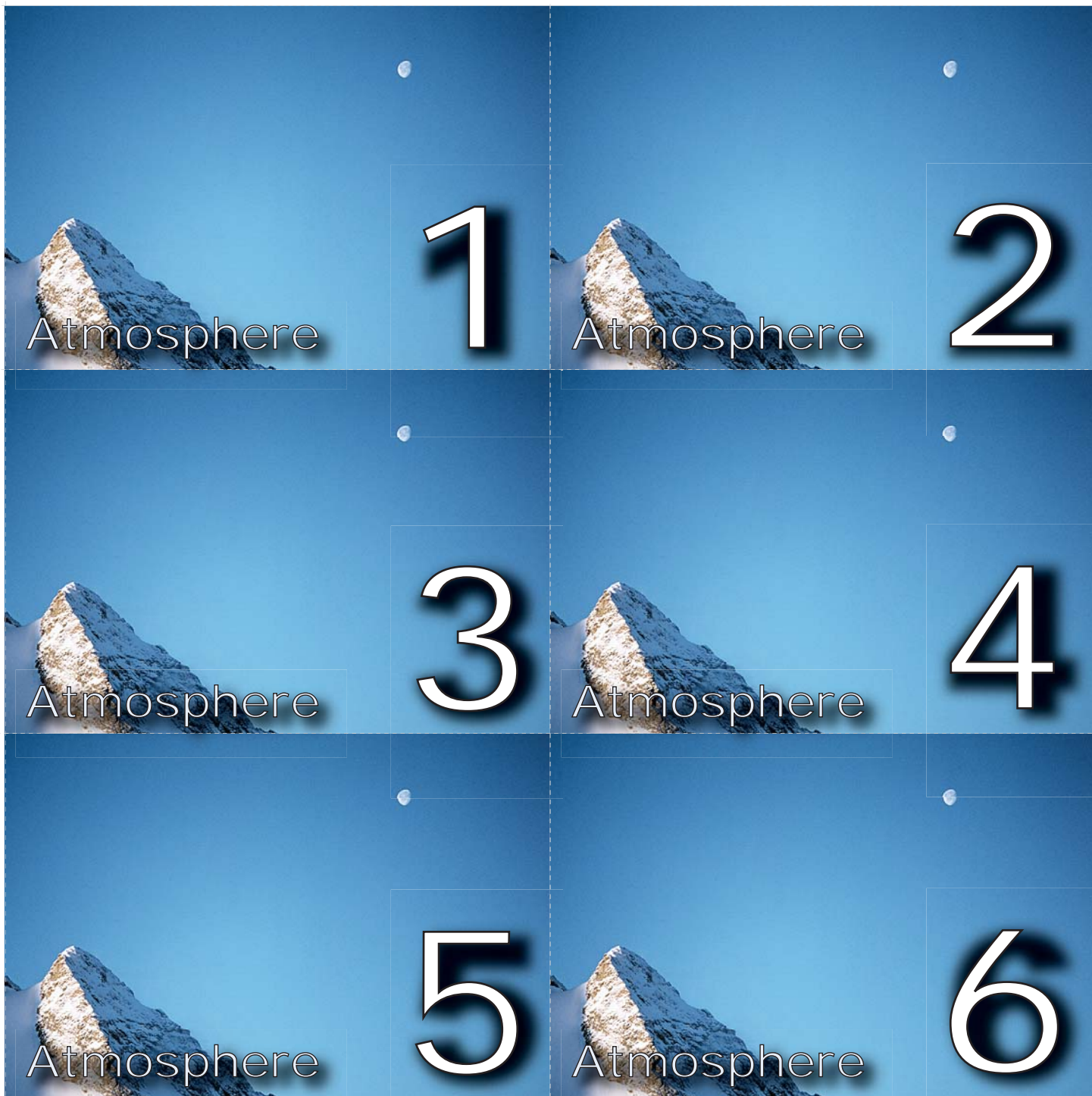


You pop up as a spring on the  
earth's surface and make  
the ground wet.

**Go** to the **Ground**

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://www.srh.noaa.gov/jetstream)





[www.srh.noaa.gov/jetstream/atmos/II\\_whatacycle\\_atmosphere.pdf](http://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](http://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](http://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](http://www.srh.noaa.gov/jetstream)



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](http://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](http://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](http://www.srh.noaa.gov/jetstream)





[www.srh.noaa.gov/jetstream/atmos/ll\\_whatacycle\\_clouds.pdf](http://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](http://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](http://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](http://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](http://www.srh.noaa.gov/jetstream)



You freeze into an ice crystal and combine with other ice crystals to form a snowflake. As the snowflake 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](http://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](http://www.srh.noaa.gov/jetstream)





[www.srh.noaa.gov/jetstream/atmos/II\\_whatacycle\\_glaciers.pdf](http://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](http://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](http://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](http://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](http://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](http://www.srh.noaa.gov/jetstream)



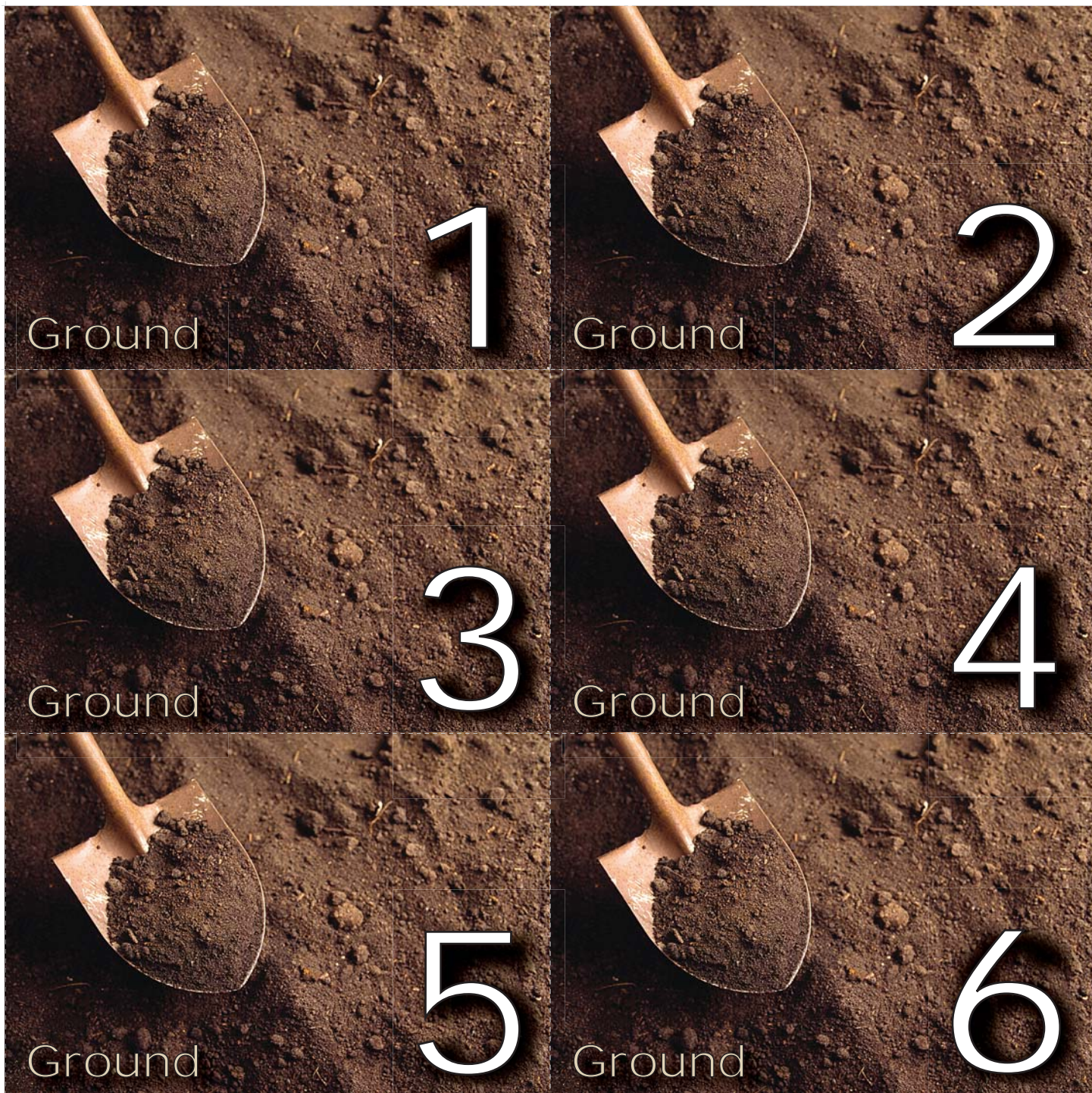
You melt and become **RUNOFF**.

**Go** to the **Lakes & Rivers**

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://www.srh.noaa.gov/jetstream)







[www.srh.noaa.gov/jetstream/atmos/ll\\_whatacycle\\_ground.pdf](http://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](http://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](http://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**

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://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**

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://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**

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://www.srh.noaa.gov/jetstream)

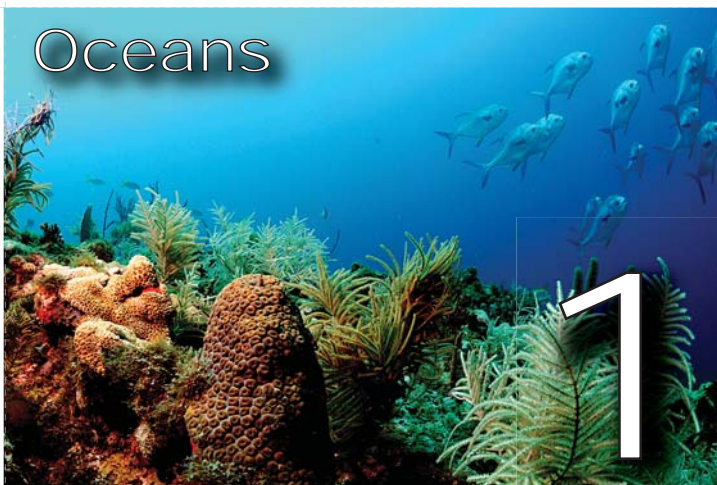


You are absorbed into the root of a blade of grass.

**Go** to **Plants**

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://www.srh.noaa.gov/jetstream)





[www.srh.noaa.gov/jetstream/atmos/11\\_whatacycle\\_oceans.pdf](http://www.srh.noaa.gov/jetstream/atmos/11_whatacycle_oceans.pdf)

You float in the ocean.

**STAY** where you are!

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://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](http://www.srh.noaa.gov/jetstream)



You float in the ocean.

**STAY** where you are!

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://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](http://www.srh.noaa.gov/jetstream)



You float in the ocean.

**STAY** where you are!

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://www.srh.noaa.gov/jetstream)



You float in the ocean.

**STAY** where you are!

JetStream - An Online School for Weather  
[www.srh.noaa.gov/jetstream](http://www.srh.noaa.gov/jetstream)





[www.srh.noaa.gov/jetstream/atmos/II\\_whatacycle\\_plants.pdf](http://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](http://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](http://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](http://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](http://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](http://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](http://www.srh.noaa.gov/jetstream)





[www.srh.noaa.gov/jetstream/atmos/ll\\_whatacycle\\_rivers.pdf](http://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](http://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](http://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](http://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](http://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](http://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](http://www.srh.noaa.gov/jetstream)







[www.srh.noaa.gov/jetstream/atmos/ll\\_whatacycle\\_snow.pdf](http://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](http://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](http://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](http://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](http://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](http://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](http://www.srh.noaa.gov/jetstream)

