

EARTH'S WEATHER

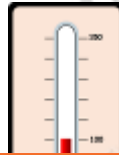
What is Weather?

Weather is what it feels like outside right now: hot, cold, windy, wet, freezing....

The Sun is the source of energy that creates all kinds of weather.

Weather changes all the time! It might be hot and sunny in the morning but cooler and rainy in the afternoon.

Temperature is how cold or hot something is.



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There are Fo



Winter



Spring



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Summer



Fall

Seasons always come in the same order every year.

Each season brings different weather. Winter is the coldest season and summer is the warmest.



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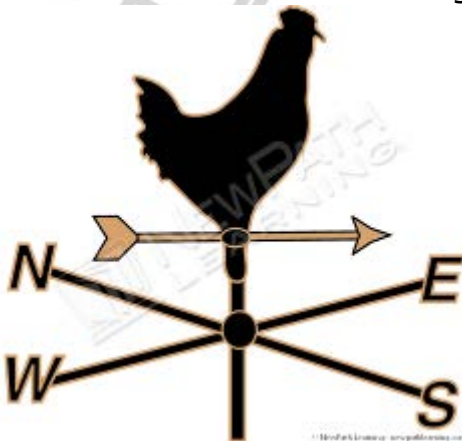
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Measuring

You can measure

temperature. A thermometer tells what the temperature is by using numbers. High numbers mean hot temperatures and low numbers mean cold temperatures.

A **wind vane** tells what direction the wind is blowing.



A **snow gauge** tells how many inches of snow fell in a certain time.

A **rain gauge** tells how much rain fell.



*Let's check what we have learned so far:
What tool can you use to tell what direction the wind is blowing?*

Water

Water vapor

Water can be

Water v

Rain th

Ice is water as a **solid**.



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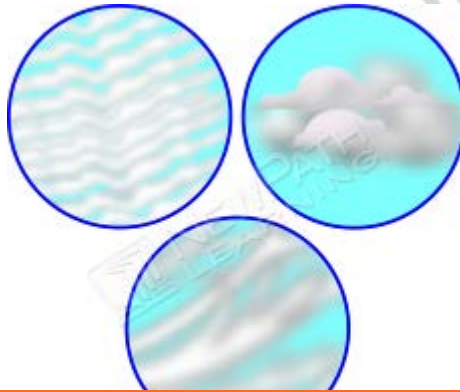


The amount of water in the air is the **humidity**. When it is very humid outside usually the air feels sticky and hot.

What Are Clouds and Rain?

When water vapor (water in the air) cools → clouds form in the sky.

Clouds are tiny drops of water together in sky. There are many different kinds of clouds.



Rain clouds so
animals.

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what is water vapor?

What are Some Kinds of Bad Weather?

A **thunderstorm** is a storm that brings rain, lightning, and thunder.

Sleet is freezing rain. It starts out as rain in the sky, but starts to freeze as it falls. When it gets to the ground, it is almost frozen.



Snow is water that freezes high in the air and falls as snowflakes.

A **blizzard** is a lot of snow that falls in a short amount of time.



A **hurricane** is a dangerous storm that brings high winds and a lot of rain.



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