

Name
St. Agnes 3-2

Date
Weather

Weather

- Earth= only place in the solar system where water can naturally be found as solid, liquid, or gas
 - These 3 states are key to weather

Water on Earth

- Earth's surface is about $\frac{3}{4}$ water (almost the whole planet)
- Atmosphere- the blanket of air that wraps around the planet (water is in Earth's atmosphere)
- Water affects weather all over earth
 - Affect- to change something
- Weather- the condition of the atmosphere at a particular time and place
- We can feel the water in the air
 - Humidity- How much water vapor is in the atmosphere

Water Cycle-The movement of water on Earth

- 3 main processes move water through cycle:
 1. Water evaporates- changes from a liquid to a gas called water vapor

2. Then water in clouds condenses- changes from a gas to a liquid
3. Finally, precipitation occurs. Precipitation= the liquid water leaving the clouds

4 Kinds of Precipitation

1. Rain- Snowflakes fall from the clouds. If snowflakes fall through warmer air they melt and fall as rain
2. Freezing Rain- forms when rain makes contact with the ground that is 32 degrees fahrenheit
3. Sleet- Snowflakes fall from clouds and rain forms. If air at the ground is very cold, rain freezes to form sleet
4. Snow- falls from clouds and stays snow if the air is 32 degrees fahreneit

Predict- telling what is likely to happen in the future

- Predicting the weather helps us to be prepared
- We can predict the different temperatures in the different seasons

Temperature- a measure of how hot or cold something is

-Another way to predict the weather is to use weather instruments

- Barometric Pressure- weight of the air pushing down on you right now but it cannot be felt

- Measured by a barometer
- Hygrometer- measures humidity
- Thermometer- measure of temperature in degrees fahrenheit

Storms

- Storm- a disturbance in the atmosphere that causes large amounts of wind
- Floods- an overflow of water that spreads over dry land that is not normally covered in water and causes damage
- Impact- to directly affect something. Major storms can have a big impact on an area
- One kind of the strongest storms is called a hurricane
 - Hurricane- a large storm that forms over an ocean with strong winds and a lot of rain
- Another hazardous storm that can happen with a thunderstorm is a tornado
 - Tornado- a large mass of swirling wind
- Thunderstorm- extreme storms with thunder and lightning

Droughts

- Drought- a long period with little to no rain
- Can cause sandstorms and dust storms