



# MINI 4-H WEATHER

## Welcome to Mini 4-H!

You are now a member of the 4-H family. You are a special person.

Mini 4-H'ers have lots of fun! There are lots of activities for you to explore. You can try new things. You can share it with your friends and family.

Mom, Dad or another adult can help you with your project. Bring your project to the 4-H Fair and lots of people will be able to see what you have done. You also get a ribbon made just for Mini 4-H'ers.

## Here are some things to know about 4-H.

**The 4-H Symbol:** A four-leaf clover with an “H” in each leaf

**4-H Colors:** Green and White

**4-H Motto:** To make the best, better.

**4-H Pledge:** I pledge my Head to clearer thinking  
My Heart to greater loyalty  
My Hands to larger service, and  
My Health to better living, for my club, my  
community, my country, and my world.

## Display at the Fair:

Bring your paper plate sun to share at the fair. Don't forget to write your name on it!

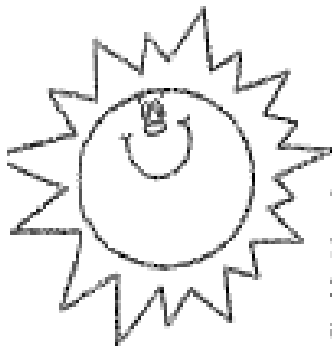
## Some of the items you may need for Weather, include:

- Pencil
- Crayons, colored pencils, paint
- Paper Plate
- Straws (3)
- Glue
- Jar
- Masking Tape
- Scissors
- Ruler

WOW! DID YOU KNOW that the earth is completely surrounded by a life-giving ocean of air called the atmosphere? Without the atmosphere there would be no life as we know it on earth. Oxygen that we breathe every minute of every day is found in the atmosphere.

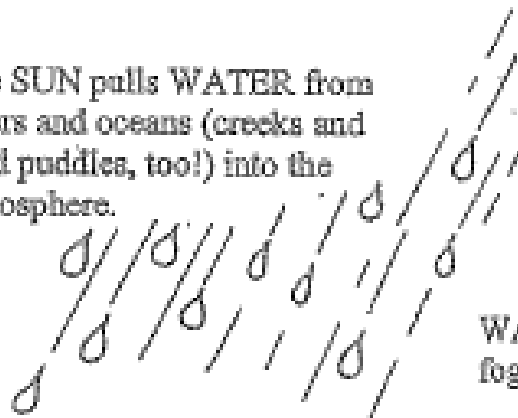
WEATHER is the condition of the lowest layer of atmosphere at a particular time and place. It is the way the air around us constantly changes. Sometimes the air is still. Sometimes there is a soft breeze or a rushing wind. The air can be hot or cold, wet or dry.

Cookies don't taste very good without the right ingredients. Weather also has ingredients to make it work. The main ingredients of weather are sun, wind, and water. Let's learn how these work together!



The SUN heats the air and makes it move. When it does this it creates WIND.

The SUN pulls WATER from rivers and oceans (creeks and mud puddles, too!) into the atmosphere.



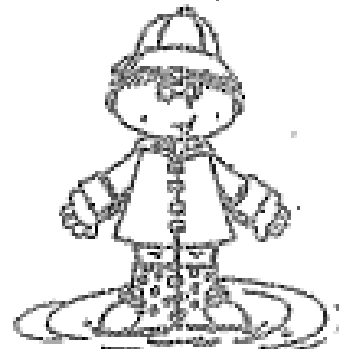
WATER in the air helps create clouds, fog, rain, snow, hail, dew, and frost.

#### WHY DO WE NEED TO KNOW ABOUT WEATHER?



The weather often determines what we will wear each day. Will we need long sleeves or short sleeves, shorts or pants, raincoat or winter coat.

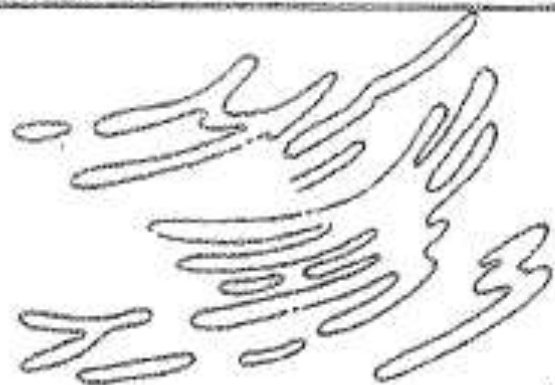
The weather often will determine whether we spend our time inside or outside. Think about what the weather is like on days that you enjoy being outside. What is it like on days that you don't want to play outside?



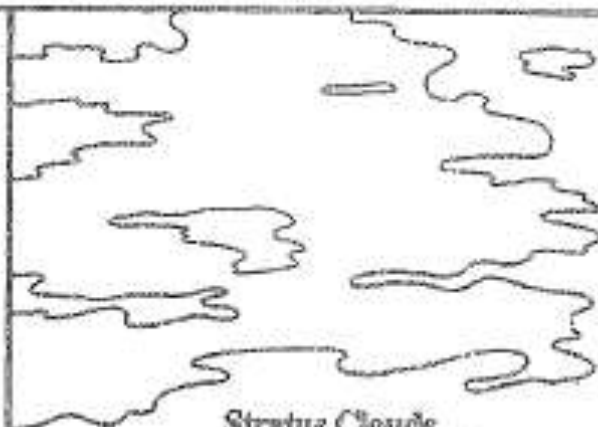
Now that you know that the WEATHER is a big part of our lives and can be fun to learn about, let's learn more about it!

EXHIBIT: Pick one of the activities and follow the directions. You'll have your exhibit done in a jiffy! If you do Mini 4-H Weather for more than one year, try to pick a different activity each year.

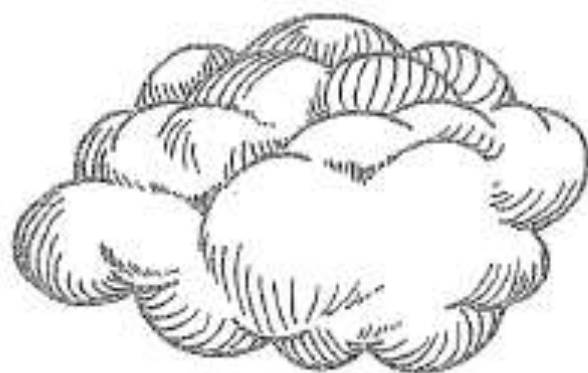
# WEATHER SYMBOLS



**Cirrus Clouds**  
High, wispy clouds made of ice crystals.



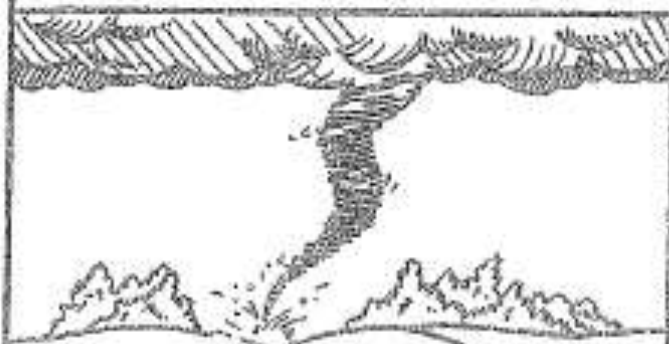
**Stratus Clouds**  
Flat, layered clouds that may blanket the sky.



**Nimbus Clouds**  
Dark, rain or snow clouds.



**Thunderstorm**  
Strong winds and heavy rain with thunder and lightning.

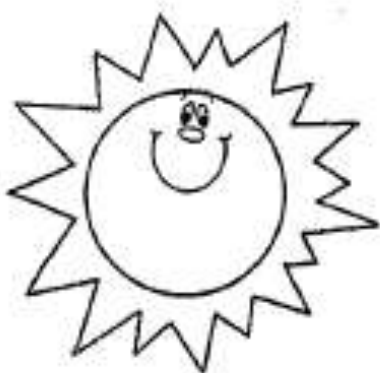


**Hurricane or Tornado**  
A hurricane is a storm with very strong winds. A tornado is a violent wind that often appears as a funnel-shaped cloud.

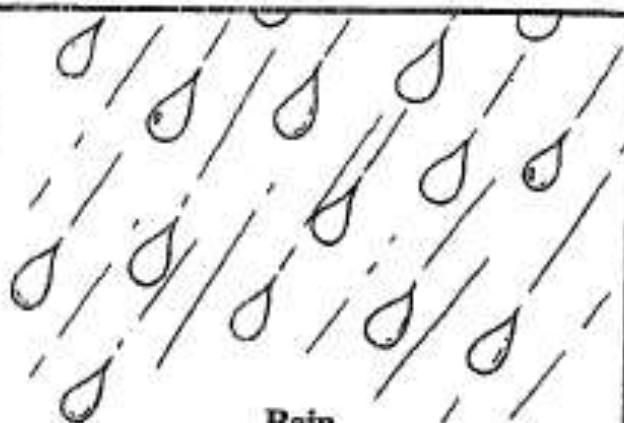


**Fog or Smog**  
Fog is a cloud of tiny drops of water found close to the ground. Smog is a mixture of fog and smoke.

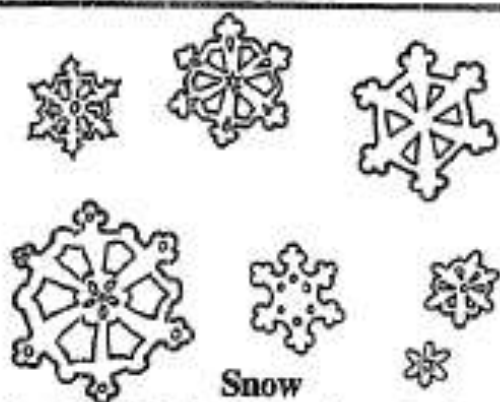
# WEATHER SYMBOLS



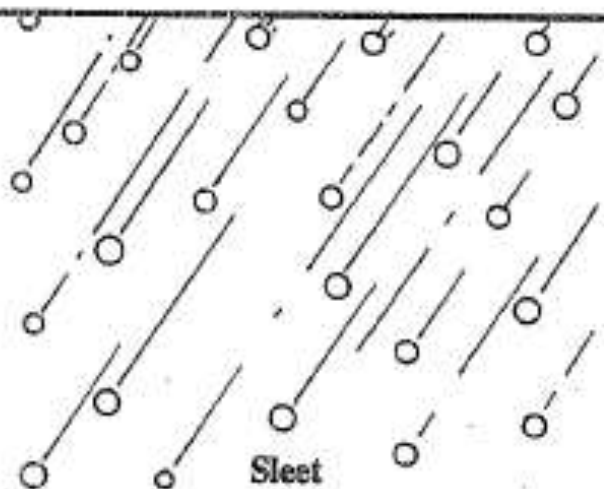
**Sunny**  
Clear sky with sunshine.



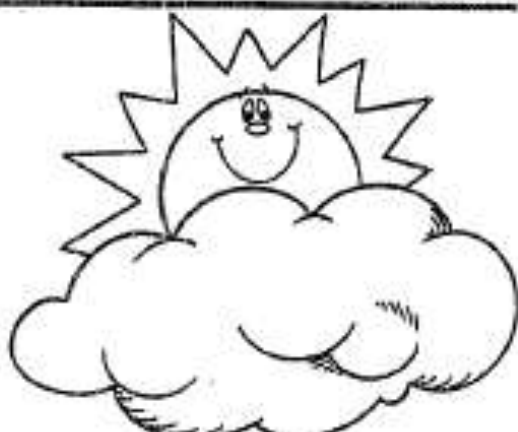
**Rain**  
Water that falls to the earth in drops made from moisture in the air.



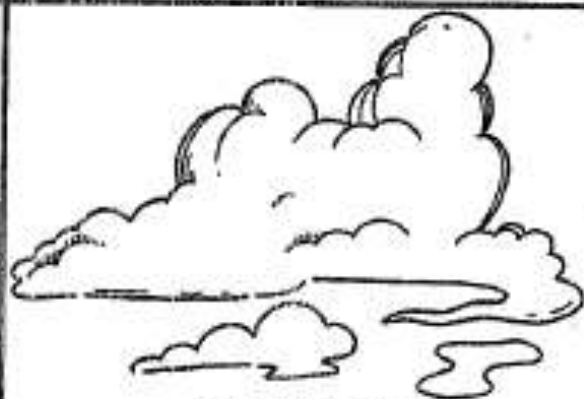
**Snow**  
Small white ice crystals made from drops of water that freeze and fall to earth.



**Sleet**  
Rain that is partly frozen.



**Partly Cloudy**  
Scattered clouds with no rain or snow.



**Cumulus Clouds**  
Puffy clouds that look like floating cotton; fair-weather clouds.

## HOW MUCH DID IT RAIN? HOW MUCH DID IT SNOW?



Precipitation is any kind of water that falls from clouds. Rain, drizzle, freezing rain, hail, sleet, and snow are all a form of precipitation. A rain/snow gauge is used to measure the amount of precipitation that falls. Sometimes it rains a lot and sometimes it can go for long periods (weeks even months) with no rain at all.

Supplies: Jar with a wide mouth (big opening at the top)  
Masking tape  
Scissors  
Ruler  
Pen  
Paper and pencils



- Directions:
1. Cut a length of masking tape that will extend from the bottom of your jar to the top of your jar. (Jar should be empty & clean)
  2. Attach the tape to the jar. Make sure it is vertical (up and down) on the jar with the bottom of the tape going all the way to the bottom of the jar.
  3. Smooth the tape. Have your helper help you smooth out any stubborn wrinkles.
  4. Put the ruler against the tape with #1 at the bottom of the jar. Have your helper help you mark  $\frac{1}{4}$  inch,  $\frac{1}{2}$  inch,  $\frac{3}{4}$  inch, 1", and so on. Make the appropriate marks on the masking tape.
  5. Place the rain gauge outside away from buildings and trees.

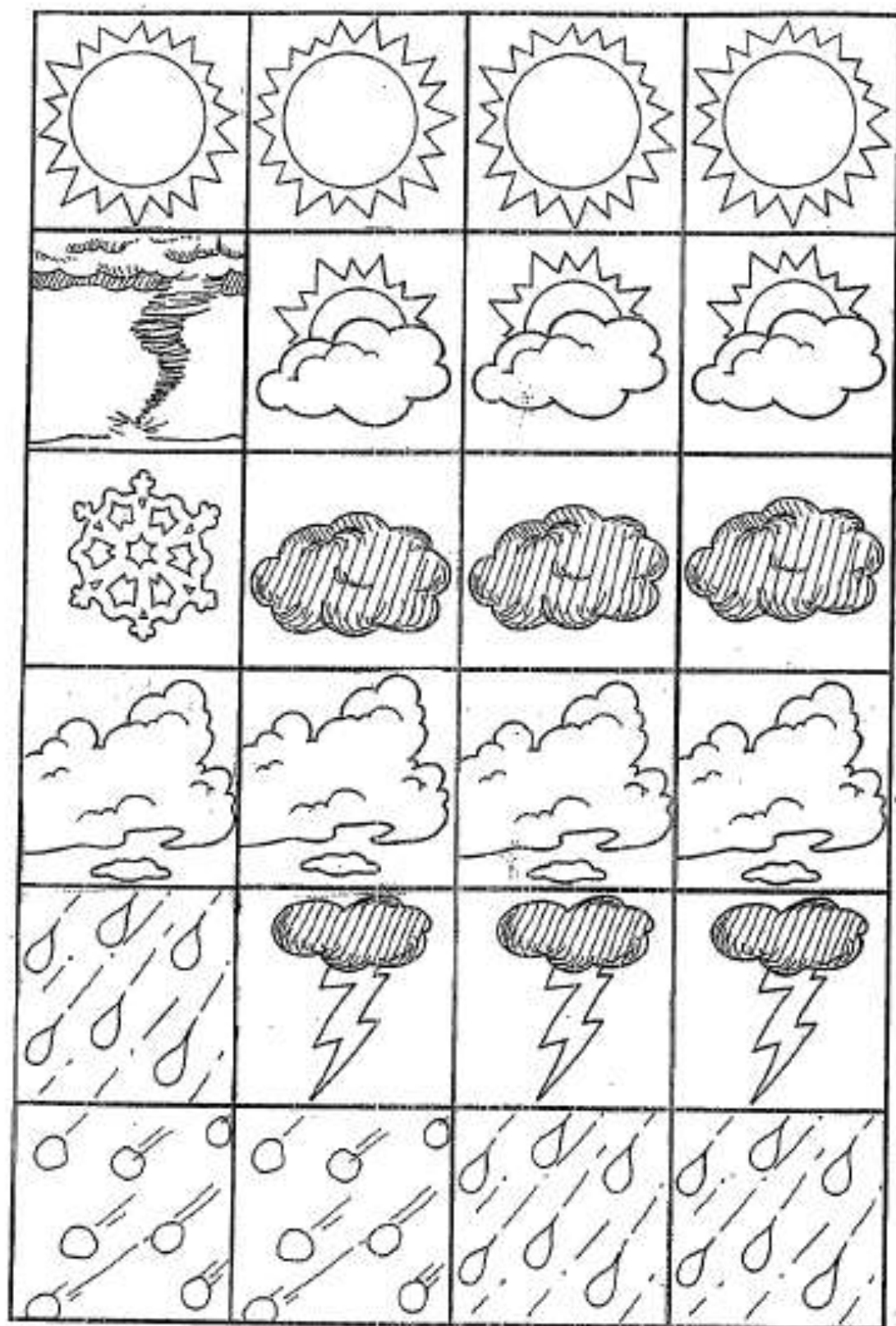


YOU DID A SUPER JOB!!!



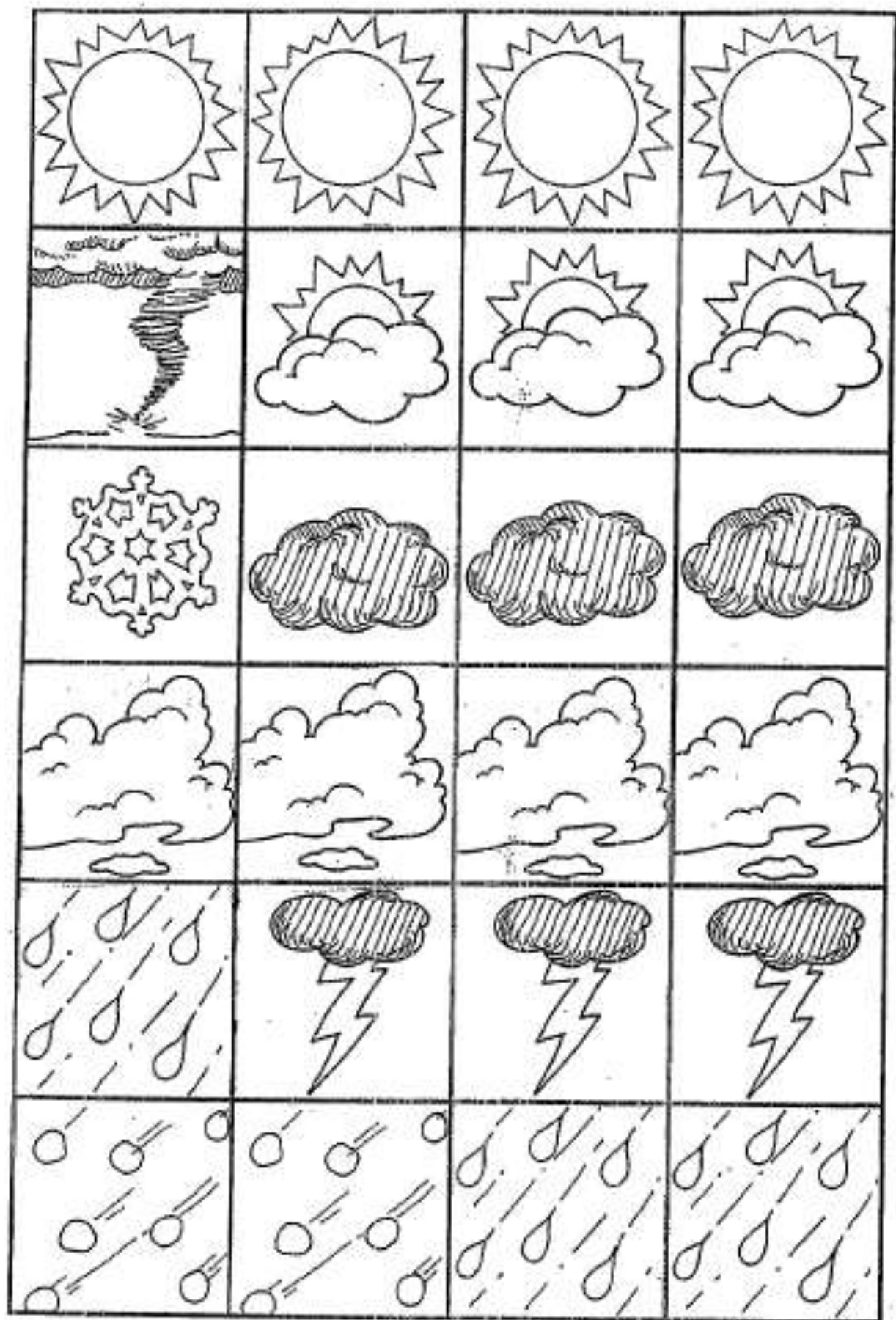
This will help you keep track of the amount of rain you get at your house. If you're measuring snow, ten inches of snow is equivalent to one inch of rain.

# SYMBOLS FOR WEATHER CHART





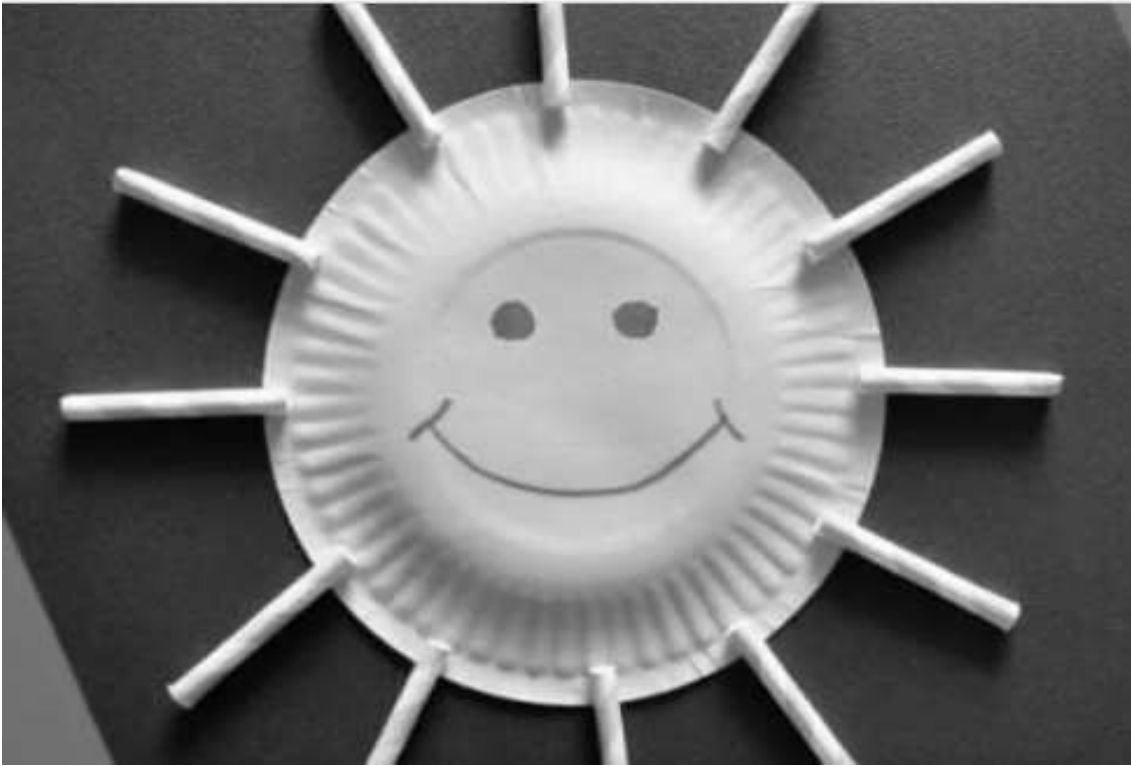
# SYMBOLS FOR WEATHER CHART







## Make a Paper Plate Sun



1. Color your paper plate yellow and add eyes, mouth, and decoration
2. Cut straws about 3 inches long and glue to the edges

If you want to do something really cool – turn the plate over and make a rain cloud out of cotton balls.