



Get ready to head outside as we explore the weather through exciting activities! We will explore the clouds, play a weather game and make a crafty rainbow!

## What is Weather?

Weather is everything you can describe about the air all around you outside. Does the air feel hot or cold? Do you feel a strong wind or a gentle breeze? Do you see a sky filled with fog or rain? Do you hear thunder and see lightning, or sunlight or clouds? It's all weather!

## Weather is important.

What clothes we wear depends on the weather. What games we can play outside depends on the weather. To discover the weather, all you need to do is look out the window. But it's a lot more fun to step outside your door and explore!

## Keep going:

Set up an online reading group with some of your friends or family. You can read the same book, then talk about what you learned, or you can read different books and share cool weather facts.



Sam Noble Home



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## Let's Read



Find a comfortable spot and read about the weather! Here are some ideas to get you started:

- Oh Say Can You Say What's the Weather Today?  
by Trish Rabe
- The Kids' Book of Weather Forecasting by Mark Breen and Kathleen Friestad
- Weather by Melissa Getzoff, Susan T. Hall
- How the Weather Works: 100 Ways Parents and Kids Can Share the Secrets of the Atmosphere  
by Michael Allaby
- Weather, Poetry for All Seasons by Lee B. Hopkins
- Weather by Fiona MacDonald

You can download digital copies of these books for free from [openlibrary.org](http://openlibrary.org). Here is how!

1. Go to [openlibrary.org](http://openlibrary.org).
2. Click the blue "sign up" button on the top right to create a free account. You will be sent a confirmation email.
3. Sign in.
4. Type the book title and author into the search bar.
5. Find your book and click the blue "borrow" button.
6. Don't forget to return your book when you are finished reading it!

# Clouds

What are Clouds? Clouds are groups of tiny water droplets that we can see in the sky. Have you ever noticed how clouds have different shapes? Sometimes clouds are wispy and light while other times they are large and puffy? Different clouds can tell us about the weather. Thick sheets of gray clouds mean that it may rain or snow, puffy white clouds may mean that the weather will be nice that day. And no clouds at all may mean it's going to be hot!

Before you start, you should have:

- A spot near a window or outside where you can see the sky
- Something to sit or lay on such as a blanket or towel
- Something to draw with (paper and pencils, markers, even sidewalk chalk)
- Optional: Turn this activity into a cloud party with some snacks or a picnic lunch!

## Get Started:

- 1.** Find a window or go outside to a place where you can see the sky
- 2.** Sit or lay on the ground. Be sure to put down your blanket or towel first.
- 3.** Look up in the sky and see how many clouds you can find. (Don't look directly at the sun, it can hurt your eyes!)
- 4.** Take a few minutes to look. You might see different types or shapes of clouds. Here are some questions to think about as you observe the clouds:
  - What color is the sky between the clouds? Is it raining or sunny?
  - Do the clouds have different shapes? Are they thin or puffy?
  - Do the clouds have different colors? Are they white or gray?
  - Do the clouds cover the sky? Do they form a line? Or, are the clouds just here-and-there across the sky?
- 5.** Draw it! Draw the clouds you can see in the sky. You can use paper and pencils, crayons, pens, whatever you have! You can even draw clouds on your sidewalk or driveway with chalk!

## Keep going:

Make a cloud journal for the week by going outside every day and drawing the clouds you see in the sky. Write about how the weather felt on each page and keep the pictures to create a story of the weather and clouds you have seen. Scientists that study clouds give each shape of cloud a name. Learn about the different names of clouds and try to name yours by searching online or using the links below.

### More Information on Clouds and Weather:

<https://web.extension.illinois.edu/treehouse/clouds.cfm?Slide=5>  
<https://oeta.pbslearningmedia.org/resource/evscps.sci.life.clouds/clouds-and-weather/>  
<http://eo.ucar.edu/kids/> <https://www.weather.gov/media/owlie/CloudsOutMyWindow.pdf>  
<https://oeta.pbslearningmedia.org/resource/evscps.sci.life.clouds/clouds-and-weather/>  
<http://www.eo.ucar.edu/kids/sky/clouds1.htm>

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# Rainbows

What is a rainbow? A rainbow is made when sunlight shines through drops of water in the sky. Rainbows are made of colors of light: red, orange, yellow, green, blue, indigo, and violet.

Before you start, you should have:

- A clear glass or cup
- Water
- A piece of white paper
- Optional: a small cosmetic mirror that can fit into the glass
- Optional: a flashlight

## Get Started:

1. Fill a clear cup or glass with water and place it by a window on a sunny day.
2. Put a white piece of paper or sheet under the glass.
3. If you don't have strong sunlight, try shining a flashlight through the water or use your cell phone's flashlight.
4. For a stronger rainbow, put a small cosmetic mirror in the glass and tilt it towards the paper.
5. What does the rainbow look like?
6. Go on a color hunt! Search your house or go outside to see if you can find things for each color of the rainbow.

## Keep going:

Make your own crafty rainbow by printing the template provided or make your own! You can color it or use other colorful materials to decorate it. Try colored paper, pasta or rice dyed with food coloring, glitter, tissue paper, pieces from magazines or any combination of these! **Template on page 4.**

### More Information on Rainbows

[https://openlibrary.org/works/OL9631200W/](https://openlibrary.org/works/OL9631200W/What_is_a_rainbow)

[What\\_is\\_a\\_rainbow](https://openlibrary.org/works/OL9631200W/What_is_a_rainbow)

<http://www.sciencekids.co.nz/sciencefacts/weather/rainbows.html>

# Let's Play: Weather Charades

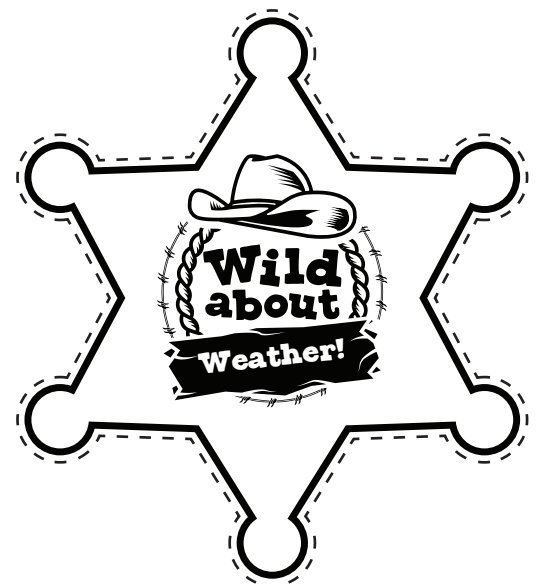
1. Grab a buddy or two!
2. Take turns acting out different kinds of weather or weather words without talking or making noise. Each person has 30 seconds to guess what the other is acting out.

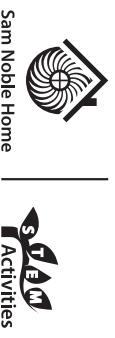
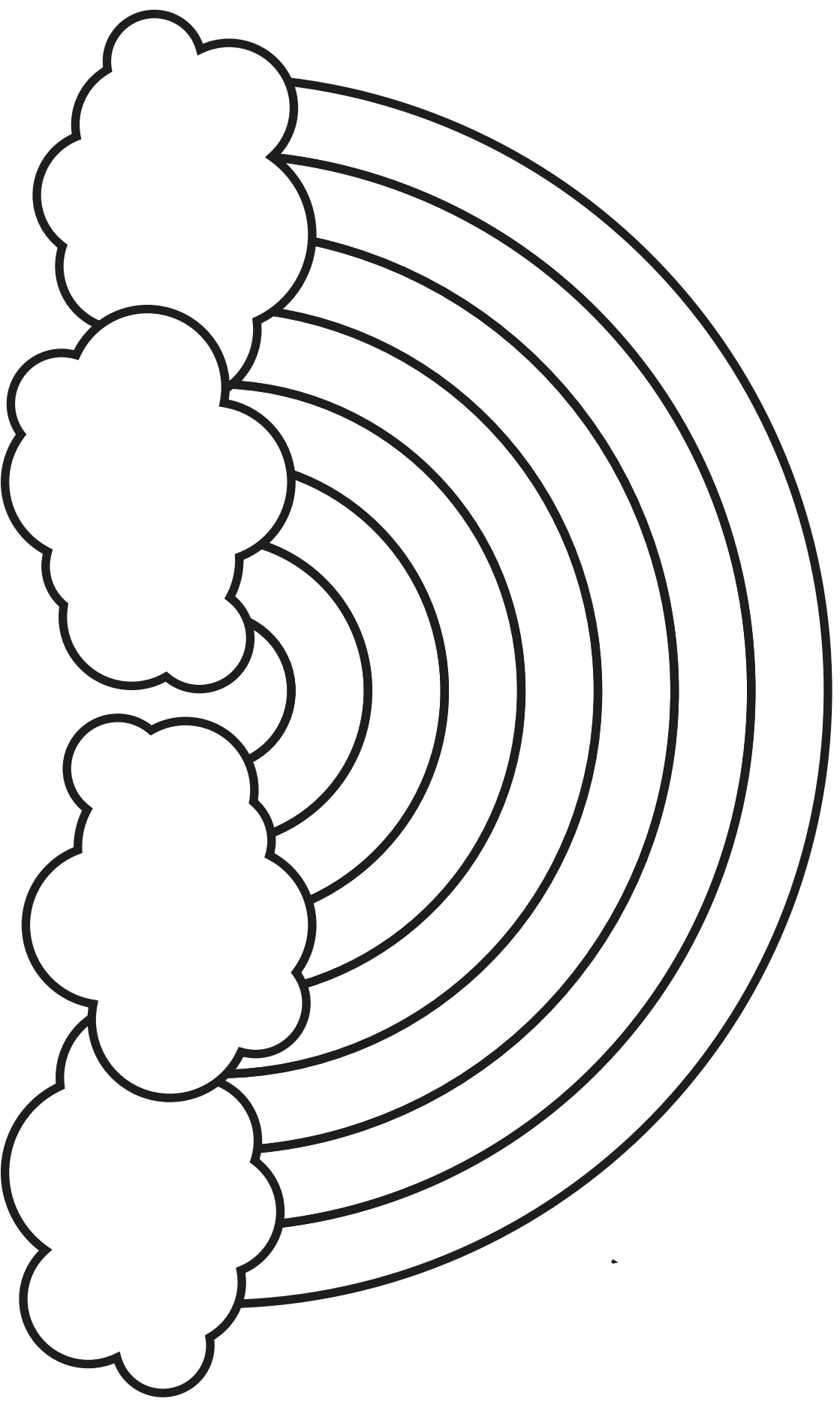
Here are some ideas or choose your own:

- Cold
- Hot
- Rainy
- Foggy
- Windy
- Rainbow
- Sunny
- Snowy
- Icy
- Thunder

## Way to go Partner!

You've been deputised!  
Carefully cut out your badge  
and wear it with pride!





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