



yellow leaves





wheat fields





red squirrel





red leaves



pumpkins





orange leaves





hedgehog





harvesting



pine cone





conkers





conker husks





brown leaves





blackberries





autumn leaves



acorns





Weather Report

Large empty rounded rectangular box for drawing or notes.



Date: _____ Season: _____

Weather Today:

Large empty rounded rectangular box for drawing or notes.

Today it has been _____

It has felt _____

Word Bank:

sunny	cloudy	raining	storm	snowing	hailing	sleet	heavy	light	showers
windy	strong	light	wind	breeze	hot	warm	cold	foggy	misty

Weather Chart

	Monday	Tuesday	Wednesday	Thursday	Friday
Date:					
Weather (symbol)					
Temperature (°C)					
Rainfall (mm)					
Wind Direction (N,S,E,W)					



Weather Report

Large rounded rectangular box for a title or drawing, with a pair of glasses icon on the right side.

Date: _____ Season: _____

Weather Today:

Large rounded rectangular box for drawing or writing about today's weather.

Five horizontal lines for writing notes.

Word Bank:

sunny	cloudy	raining	storm	snowing	hailing	sleet	heavy	light	showers
windy	strong	light	wind	breeze	hot	warm	cold	foggy	misty

Weather Chart

	Monday	Tuesday	Wednesday	Thursday	Friday
Date					
Weather (symbol)					
Temperature (°C)					
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Wind Direction (N,S,E,W)					



Weather Report



Date: _____ Season: _____

Weather Today:

[Large empty box for drawing or notes]

What changes have people had to make to adapt to the weather conditions?

Weather Chart




















	Monday	Tuesday	Wednesday	Thursday	Friday
Date					
Weather (symbol)					
Temperature (°C)					
Rainfall (mm)					
Wind Direction (N,S,E,W)					

Seasonal Changes (Autumn and Winter): Seasonal Weather (Autumn)

<p>Aim: To observe and describe weather associated with the seasons by observing the weather in autumn.</p> <p>I can observe and describe the weather in autumn.</p> <p>To gather and record data to help in answering questions by recording the weather, temperature, rainfall and wind direction in autumn.</p> <p>I can collect and record data about the weather in autumn.</p>	<p>Success Criteria: I can watch the weather carefully. I can describe the weather in autumn.</p> <p>I can collect data about the weather, temperature, rainfall and wind direction.</p> <p>I can write and draw the data I have collected.</p>	<p>Resources: Lesson Pack</p> <p>Pencils</p>
<p>Key/New Words: Observe, observations, data, record, weather, symbol, temperature, rainfall, wind direction, thermometer, rain gauge, weather vane.</p>	<p>Preparation: Weather Symbols Prompt Sheet as required Differentiated Weather Report Activity Sheet per child Autumn Display Photos Using the Weather Station Instructions, make and set up each of these tools.</p>	

Prior Learning: It will be helpful if children are familiar with discussing the weather.

Learning Sequence

	<p>What Is Weather? In talk partners children discuss what children understand by the word 'weather'. Use the questions on the Lesson Presentation to help structure their discussion. Go through the information about weather, encouraging discussion and comments from the children.</p>	
	<p>Weather Symbols: Discuss how in different weather people do certain things to keep safe, things they wouldn't always do. As a class match the picture to the weather and then to the weather symbol.</p>	
	<p>Measuring the Weather: Challenge children to think of sensible ways we could measure the weather, focusing particularly on rainfall, temperature and wind direction and discuss their suggestions.</p>	
	<p>Weather Station: Watch the video showing children using tools to measure and record the weather.</p>	
	<p>Our Weather Station: Introduce the different tools children will be using to measure the weather which will make up our weather station. Explain how each tool measures the weather and the unit it will measure it in (for example, the rain gauge measures the rainfall in mm). Explain that we will use these tools to measure and record the weather for certain weeks during the year, across all four seasons.</p>	
	<p>Weather Report: Children use the differentiated Weather Report Activity Sheet to record the weather for today. (Monitor the weather for the rest of that week using the weather station and record on the weather chart each day). Use the Weather Symbols Prompt Sheet to remind children of the weather symbols if needed. <i>Are children able to make observations about the weather?</i></p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="213 1603 574 1686">  <p>Children use the writing frame and word bank to support.</p> </div> <div data-bbox="612 1603 970 1686">  <p>Children complete the sheet using the word bank if needed.</p> </div> <div data-bbox="1018 1603 1375 1771">  <p>Children complete the sheet, explaining any changes people may make to adapt to the different weather conditions.</p> </div> </div>	
	<p>Autumn Photos: Look at the Autumn Display Photos and discuss them. Do they give us any clues about what the weather is like in autumn? Encourage children to think about autumn weather using the questions.</p>	
	<p>Autumn Weather: (Discuss this after children have recorded the weather everyday over the week). What do they notice about the weather this week? What has the temperature been? What has the weather been like? <i>Have children been able to collect data about the weather, temperature, rainfall and wind direction? Have they been able to record their data? Are children able to describe the autumn weather?</i></p>	

Seasonal Changes (Autumn and Winter): Seasonal Weather (Autumn)

Taskit

Researchit: Children could research photographs of different types of weather on the Internet.

Monitorit: Children could take turns to be class weather monitors, recording the weather and sharing it with the class.



Science

Seasonal Changes (Autumn and Winter)

Seasonal Weather

Autumn



Aim

- I can observe and describe the weather in autumn.
- I can collect and record data about the weather in autumn.

Success Criteria

- I can watch the weather carefully.
- I can describe the weather in autumn.
- I can collect data about the weather, temperature, rainfall and wind direction.
- I can write and draw the data I have collected.

What Is Weather?

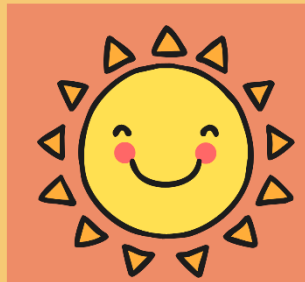


What does the word 'weather' mean?

What types of weather are there?

What is the weather like today? How do you know?

How can you find out what the weather will be like tomorrow ?



Sunny



Windy



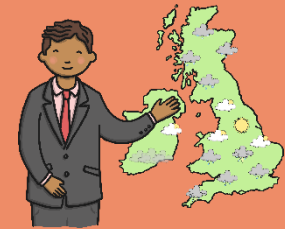
Rainy



Sunny intervals



Thunder storm

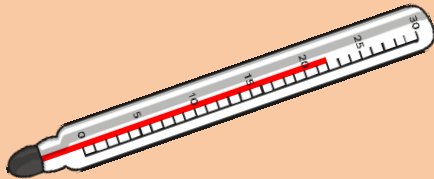


Weather Forecast

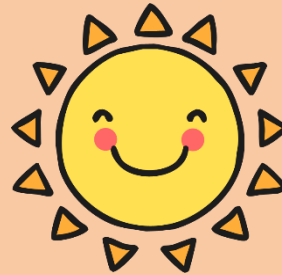
What Is Weather?



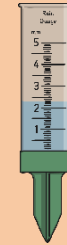
Weather is the state of the air and atmosphere at a specific time and place. The weather includes things like:



Temperature – how hot or cold it is.



Sunshine – how sunny it is.



Rainfall – how much rain there is.



Wind direction – which way the wind is blowing.



Wind force – how strong the wind is.

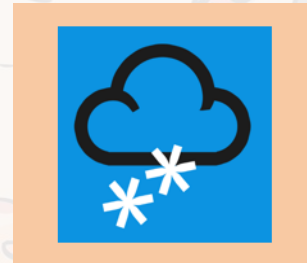
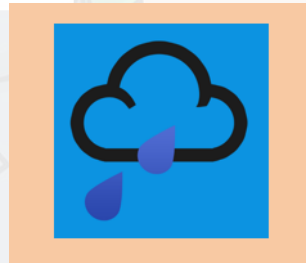
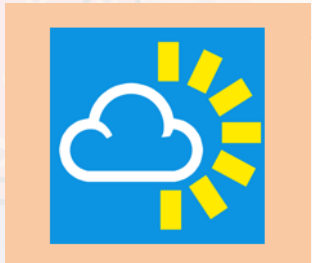
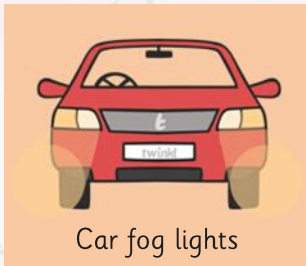


Cloud cover – how thick the clouds will be.

Weather Symbols



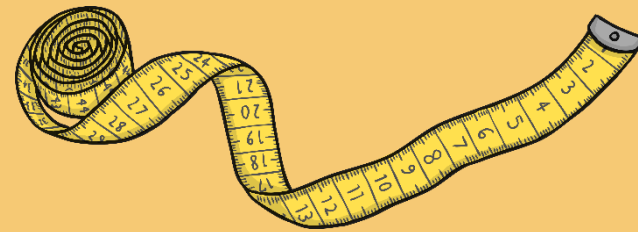
See if you can match the pictures to the weather and then to the weather symbols you might see on a weather forecast. Click on the pictures that you think match, if all the colours are the same then you were right!



Measuring the Weather



How could we measure the weather? Think carefully about these questions:



How could we measure the temperature?



How could we measure the rainfall?



How could we measure the direction the wind is blowing in?



Weather Station



These children in Cumbria are using different tools to measure and record the weather across different seasons.



Our Weather Station

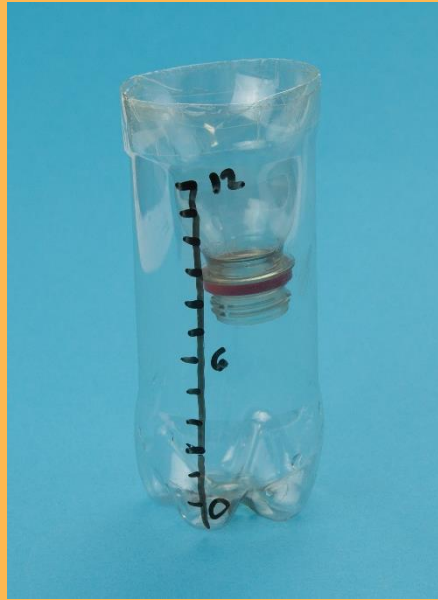


We are going to set up our own weather station so we can record the weather across the four different seasons. We are going to use:

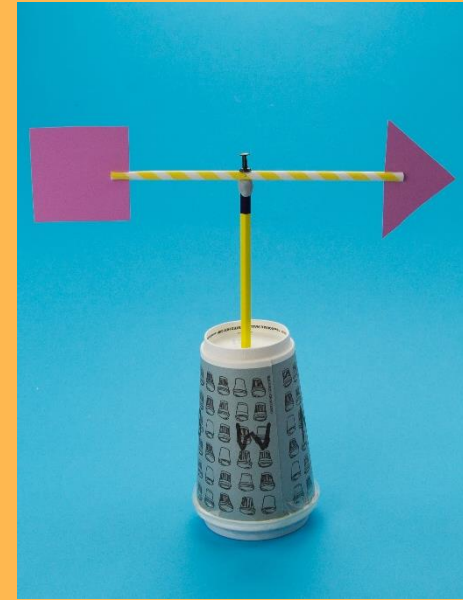
a **thermometer** to measure the temperature



a **rain gauge** to measure the rainfall



a **weather vane** to measure the wind direction



Weather Report



Weather Report

Date: _____ Season: _____

Weather Today:

What changes have people had to make to adapt to the weather conditions?

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Date:					
Weather Symbol					
Temperature (°C)					
Rainfall (mm)					
Wind Direction (N,S,E,W)					

Weather Symbols Prompt Sheet

sunny	sunny spells	cloudy
thunder and lightning	light rain	heavy rain
sleet	hail	light snow
heavy snow	MIST mist	overcast
FOG fog	◁ 7 wind direction	

Autumn Photos



What is the weather usually like in autumn?

Are there any clues in the photos?

What do you normally wear when you watch the fireworks around Bonfire Night?



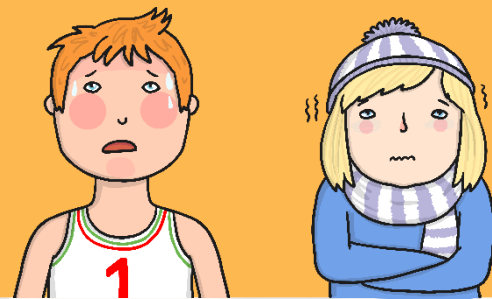
Autumn Weather



What has the weather been like this week?



What has the temperature been like?



What clothes have you been wearing?



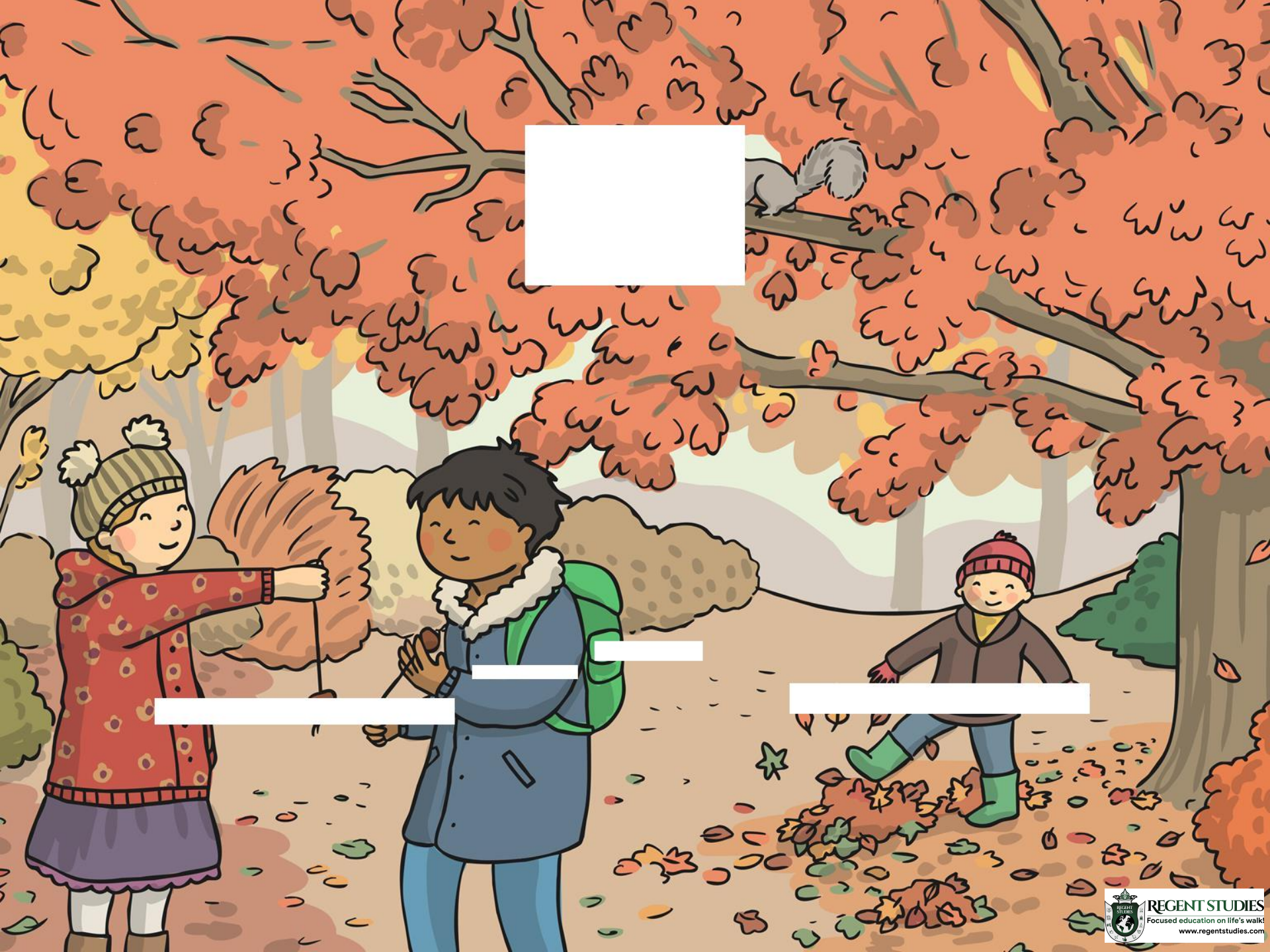
Aim



- I can observe and describe the weather in autumn.
- I can collect and record data about the weather in autumn.

Success Criteria

- I can watch the weather carefully.
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- I can collect data about the weather, temperature, rainfall and wind direction.
- I can write and draw the data I have collected.



[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

Seasonal Changes (Autumn and Winter) | Seasonal Weather (Autumn)

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Seasonal Changes (Autumn and Winter) | Seasonal Weather (Autumn)

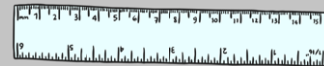
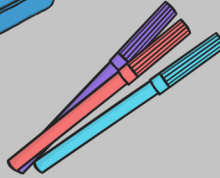
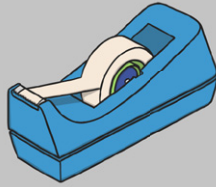
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Weather Station Instructions

Rain Gauge

Supplies

- Plastic bottle
- Sticky tape
- Scissors
- Marker pen
- Tape measure / ruler



Method



- 1 Take a clear plastic bottle and carefully cut the top off.



- 2 Turn the top upside-down and put back inside the empty bottle, like you would a funnel.



- 3 Use strong sticky tape to stick the top to the main part of the bottle.



- 4 Use a ruler or a tape measure and marker pen to mark out the scale on the side of the bottle.

Now just leave the rain gauge outside in the open (away from buildings and trees) and wait for some rain!

To secure the bottle and ensure it stays upright outside you could either put pebbles in the bottom to weigh the bottle down or dig a hole to bury the bottle in, with just the top sticking out from the ground.

Thermometer

Method

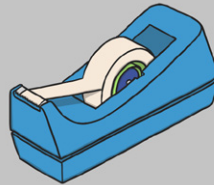
- 1 Place a thermometer in a safe and secure place outside and use sticky tape to attach it.
- 2 Ensure you take temperature readings at the same time every day.

Weather Station Instructions

Weather Vane

Supplies

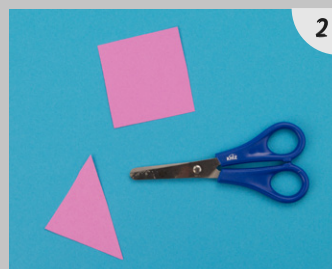
- Drinking straw
- Scissors
- Card
- Glue
- Plastic coffee cup with lid
- Pencil with rubber on the top
- Pin
- Sticky tape
- Compass
- Small pebbles



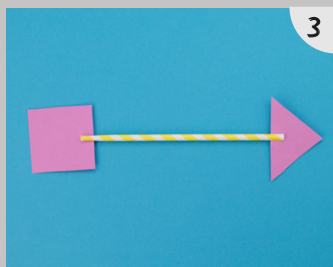
Method



1 Cut a slit in each end of a drinking straw (if your straw has a bendy part then cut this off).



2 Cut a square and a triangle out of the card. Make sure the triangle is smaller than the square.



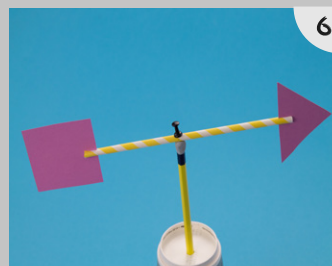
3 Stick the square and triangle into the slits in the straw to make your arrow.



4 Fill the plastic cup with heavy objects such as sand or small pebbles.



5 Tape the lid on, turn the plastic cup upside-down and stick the pencil through it into the sand or small pebbles.



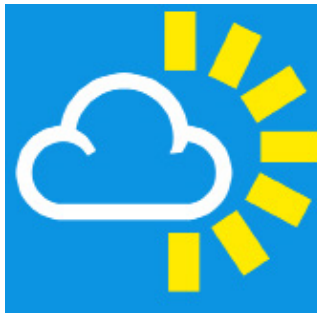
6 Stick a pin into the middle of the straw and then into the rubber on top of the pencil.

Now just set the weather vane in a secure place and use a compass to mark on the directions.

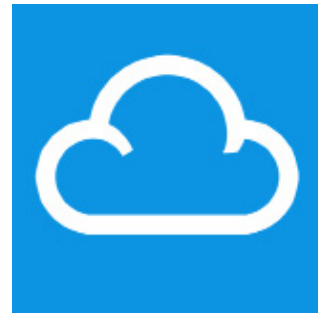
Weather Symbols Prompt Sheet



sunny



sunny spells



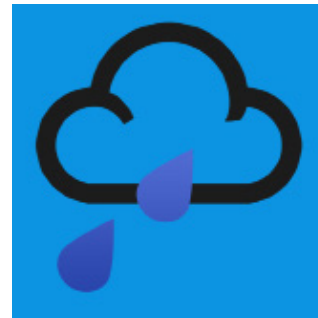
cloudy



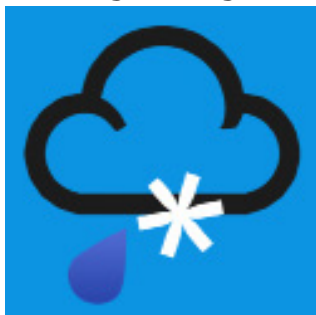
thunder and lightning



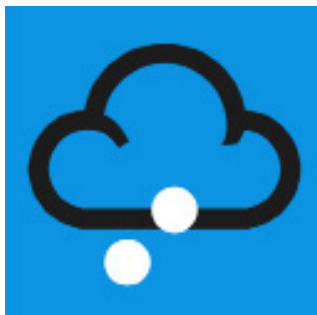
light rain



heavy rain



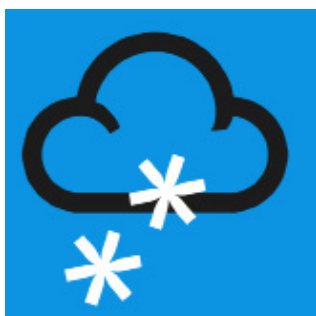
sleet



hail



light snow



heavy snow



mist



overcast



fog



wind direction