



Tasks - all classes

- Chant or sing a weather song or saying
- **Dress up / have various props related to your weather**
- Produce a weather report for your allocated place - I'll provide a large map and symbols. Practice with all of the children and choose one child to do it in the hall. If you want you can decorate your map with plants and animals which are native to the countries.
- **Show a giant weather instrument related to your allocated weather type**
- Do your fun activities - some of you might want to help out with a glue gun for some bits. You might want to show some of this in the hall at the end of the day.
- Visit the school weather station. Look at the instruments and discuss how the readings are taken as near to 09.00 as possible each day
- Meet in the hall for a presentation at the end of the day. Sing/chant your weather song/poem, show what you have made, give your weather forecast, wear/hold your props.

year	Weather type	Location for weather report and symbols to use	Suggested activities	Suggested Resources
Nursery/ Reception	Clouds and sun Key teaching point - clouds hide the sun, sun and rain can give us rainbows	Tamworth UK Symbols to learn and use - sun, cloud, rain	Discuss sunshine and clouds. Why can't we see the sun some times? What is the coloured pattern we sometimes see in the sky? If possible make a rainbow. /rainbow.htm . You will need a tub of water, a real mirror and a torch or the sun. Make cotton wool clouds, sand rainbows, sparkling suns	Paper plates, doyleys, coloured sand, glitter, cotton wool, sequins, paper For the rainbow - Tub of water, mirror, sun or torch.
Y1	Wind strength Key teaching point - the wind can blow at different strengths which can be measured.	Symbols to learn and use - Nuuk, Greenland - sun, cloud, rain, snow	Look at a variety of wind strength measuring devices. Why might we want to know how strong the wind is? Look at the Beaufort scale. Beaufort scale & wind.htm & beaufort wind force scale Make wind measuring devices - wind socks/handkerchiefs/flags. Make wind chimes	Anemometers, Cotton squares, metal objects, fan for testing, wind chime kit

<p>Y2</p>	<p>Rain/snow - precipitation</p> <p>Key teaching points - Precipitation comes from clouds, it is measured in millimetres</p>	<p>Symbols to learn and use - Tokyo, Japan - sun, cloud, rain, snow</p>	<p>Look at real rain gauges - Look on WforS as well Why might people want to know how much rain there has been? Have a go at the rain gauge quiz at quiz.htm (quite hard)</p> <p>Make pop bottle rain gauges, calibrate using measured amounts of water and decorate. You might need to cut the tops off the bottles ready for the day. Explain that these are fun rain gauges, and might not be totally accurate. measurerrain.html & raingauge.php</p> <p>Make rain music, rain sticks and/or rain pictures</p>	<p>Real rain gauges, Pop bottles, rain drop shapes to decorate, jugs, water, coloured paper</p> <p>Musical instruments Bottles with different amounts of water, tin foil</p>
<p>Y3</p>	<p>Temperature</p> <p>Key teaching points - the temperature varies from place to place, we use Celsius for all readings, with water - 0 = freezing, 100 = boiling.</p>	<p>Symbols to learn and use - N'jamenda, Chad - sun, cloud, rain, snow, temperature</p>	<p>Look at a variety of thermometers. Think of where they are used and what for. Suggested examples, See many on WforS,</p> <ul style="list-style-type: none"> • max/min dial thermometer, • digital maximum and minimum, • 2 soil thermometers, • whirling hygrometer (has one wet and one dry bulb. This is also a mercury one so need to be VERY closely supervised. Swing it round for a minute to take a reading.) <p>Measure the temperature in different places, high or low, near the radiator etc.. and using different thermometers. temperature/quiz.shtml and Quizpage2</p> <p>Look at habitats with different temperatures - make a beach collage, Alaska cold collage, desert collage, grassland collage, woodlands collage (choose more/less/different). Woodlands site</p>	<p>Thermometers, box for giant thermometer to show shells, large sheets of card, tissue, paint, glue</p> <p>See example picture</p>



<p>Y4</p>	<p>Wind direction</p> <p>Key teaching points - we observe the direction that the wind comes from, this is because this is what brings our weather.</p>	<p>Symbols to learn and use - Tamworth, New South Wales - sun, cloud, rain, snow, temperature</p>	<p>Look at a real wind vane. Discuss how when the wind travels over warm or cold places and wet or dry places it picks up elements of that weather.</p> <p>Make streamer weather vanes. Make small sails or different shapes to decorate the top. See example.</p> <p>Look at ideas for shapes to go on top at - weathervanes.co.uk/</p> <p>What weather do the various points of the compass bring to the UK? (warm, cold, dry, wet) - Use a map of UK, add arrow pointing to school's area and fastened in middle with paper fastener. Turn to show where the wind is coming from. (see example)</p>	<p>Weather vane, Lolly sticks, axels and wheels, crepe paper, compasses, card, glue</p> <p>See example picture</p>
<p>Y5</p>	<p>Cloud type</p> <p>Key teaching points - clouds are found at three levels, clouds have names, learn to identify cumulus, Cirrus and status</p>	<p>Symbols to learn and use - Tamworth, New Hampshire - sun, cloud, rain, snow, temperature, wind direction and strength</p>	<p>What are clouds? Make a cloud in a bottle (demonstration activity) - experiment/00000030activity1.html - try these out and see which is best.</p> <p>Look at art to find different types of clouds. Find out how to identify clouds by their shape and height.</p> <p>Make cloud mobiles showing clouds at different heights. See example.</p> <p>Identification - clouds/index.shtml and /cloud.htm art - cloud-art/ gallery</p>	<p>Experiment Pop bottle Matches Water</p> <p>Mobiles Cotton wool String/cotton/plastic Sky coloured lolly sticks Snowflake sequins Tin foil</p> <p>See example picture</p>
<p>Y6</p>	<p>Air pressure</p>	<p>Symbols to learn and use</p>	<p>What is air pressure - how does it affect the</p>	<p>Barometer, barometer</p>



	<p>Key teaching points - air pressure readings reflect the weight of air pressing down on us. Air pressure can be high or low.</p> <p>Average = 1014 Low = <1000 High = >1025</p>	<p>- Monte Alegre, Brazil - sun, cloud, rain, snow, temperature, wind direction and strength, high and low air pressure</p>	<p>wind? Have a go at the barometer quiz at quiz.htm (quite hard)</p> <p>Fun experiments - http://home.howstuffworks.com/science-projects-for-kids-air-pressure.htm and hot air bottle collapse.html fun description - basic2.html</p> <p>Use kits, then balloons and tubes to make a barometer baro1.html howto barometer.jpg</p> <p>Art activity - make 2D decorated hot air balloons (they go up because hot air rises). Use fab foam for shapes then swap bits to decorate. See example.</p>	<p>kits (optional), straws, rubber bands, small cans or cups, plastic bags or balloons</p> <p>Art - fab foam, paper, sequins, plastic 'ropes', thread or string</p>
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URLs for weather data

- Use History to choose the previous day. Have a look at the previous year and the few days around the current month to choose the weather you want to show in your pretend weather forecast.
- Look on Google maps at the map and the satellite image
- Do an image search to look at photographs of the place
- Work in groups to present the weather forecast, choose one group to do it in the hall.

Tamworth, New Hampshire, USA - <http://www.wunderground.com/US/NH/Tamworth.html>

Tamworth, New South Wales, Australia - <http://www.wunderground.com/global/stations/94762.html>



Tamworth, Staffordshire, UK - <http://www.wunderground.com/cgi-bin/findweather/getForecast?query=birmingham+uk> (select Tamworth from the source dropdown in the box)

N'jamenda, Chad, (Central Africa) -

http://www.wunderground.com/history/airport/FTTJ/2007/3/23/DailyHistory.html?req_city=NA&req_state=NA&req_statename=NA

Monte Alegre, Brazil - <http://www.wunderground.com/cgi-bin/findweather/getForecast?query=monte+alegre>

Tokyo, Japan -

http://www.wunderground.com/history/airport/RJTT/2008/2/23/DailyHistory.html?req_city=NA&req_state=NA&req_statename=NA

Nuuk, Greenland -

http://www.wunderground.com/history/airport/BGGH/2007/2/23/DailyHistory.html?req_city=NA&req_state=NA&req_statename=NA

Other useful URLs

Barnaby bear - weather report - http://www.bbc.co.uk/schools/barnabybear/games/weather_report.shtml

Weather symbols

<http://www.metoffice.gov.uk/weather/uk/guide/key.html>

fun animated ones - <http://mishaal3.tripod.com/uk/id29.html>

watch a weather forecast at - <http://www.bbc.co.uk/weather/> - click on watch / listen to BBC weather

Weather sayings & Songs

http://www.weatherforschools.me.uk/html/windy_wordandactions.html

<http://www.coldal.org/weather.html>

<http://www.wxdude.com/proverb.html>

<http://www.wxdude.com/guide.html>

