



Midweek Challenge

Wednesday 29th July

Today is International Rain Day

Why don't you make a rain gauge?

What you need:

- Empty two litre plastic bottle
- Scissors
- A few handfuls of clean pebbles, gravel or marbles
- Masking tape
- Water
- Ruler
- Permanent marker
- Rainy weather!
- Paper and pencil



1. Carefully use the scissors to cut the top of the bottle off at the wide part, just below where it begins to get narrow.
2. Put the pebbles in the bottom of the bottle – these will help keep it from getting blown over if it's windy.
3. Turn the top of the bottle upside down – make sure there is no cap on it, it is going to act like a funnel. Place it in the top of the bottom part of the bottle and tape around the top edges to join them together.
4. Use a long piece of tape to make a straight vertical line from the top edge of the bottle to the bottom. Use the marker to draw a line on the vertical piece of tape just a little above the top of the pebbles. This will be the bottom of your rain gauge.
5. Set the ruler against the vertical tape so that the “0” line lines up with the bottom mark. Use the marker to mark every half cm along the piece of tape and label from bottom to top.
6. Set the bottle on a level surface and pour some water in until it reaches the bottom mark. Your rain gauge is now ready to go!
7. Put the rain gauge outdoors.
8. Pay attention to the weather forecast. On the day that you are likely to get rain, make sure the water in the bottom hasn't evaporated below the bottom mark. If it has refill it to that mark.
9. If it rains within 24hours, check your gauge and see how high the water is now. That is how much rain has fallen in the last day.