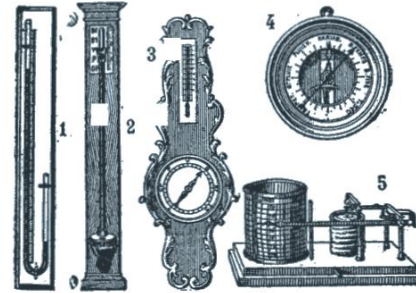


Week commencing Monday 8th June 2020

LO: To predict the change in the weather using a barometer

QUESTION: How can you predict the weather using a barometer?

What is a barometer? Barometers are used by weather forecasters to help predict the weather. These devices are used to measure the atmospheric pressure of a place. A barometer usually contains a small vacuum chamber that will expand and contract with the changing air pressure.



Follow these links to learn a little more about air pressure:

Gravity and air pressure: <https://www.youtube.com/watch?v=c86xKDcy-TQ>

Here are some examples of what they look like.

Measuring air pressure: <https://www.youtube.com/watch?v=pL6BthjvTZ4>

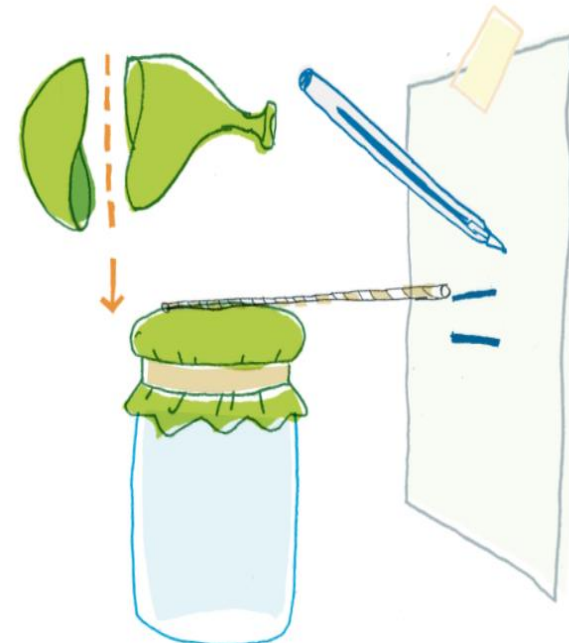
Task: You are going to conduct an experiment throughout the week to record the atmospheric pressure and predict what the weather will be. Look out to see if you can identify a pattern.

Instructions:

1. Cut the bottom half off the balloon. ^[1]_[SEP]
2. Pull the top half of the balloon tight over the jam jar. ^[1]_[SEP]
3. Use the elastic band to keep the balloon tight over the jar.
4. Fix the straw to the centre of the balloon skin using a piece of sticky tape. ^[1]_[SEP]
5. Place the paper so that it is lined up against the straw. Draw a line at this position. (this is your starting point)
6. Above the line write the word "high" and below the line write "low". ^[1]_[SEP]
7. Note down the pressures each day to see if you can notice a pattern between your air pressure readings and the weather outside. You can make a mark above or below your starting point and write the day to remind you of the changes. ^[1]_[SEP]

You will need:

- A glass jar or similar
- A balloon
- A rubber band
- Scissors
- A straw
- Sticky tape
- Paper
- Pen



Predictions:

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Prediction (Looking at the pressure reading, predict how you think the weather will be)							

Results:

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Air pressure reading (High or low)							
Weather outside (Description of the weather outside)							

Evaluation:

Did your predictions match your results?

Where you able to identify a pattern?

What did you learn from this experiment?