

WEATHER BALLOON

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The brief

Make a barometer and predict the weather.

The method

1. Cut the bottom half off the balloon.
2. Pull the top half of the balloon tight over the jar.
3. Use the rubber band to keep the balloon tight over the jar.
4. Fix the straw to the center of the balloon skin using a piece of tape.
5. Place the paper so that it is lined up against the straw. Draw a line at this position.
6. Above the line write the word "high" and below the line write "low".
7. Note the pressures each day to see if you can notice a pattern between your air pressure readings and the weather outside.

Materials

A glass jar

A balloon

A rubber band

Scissors

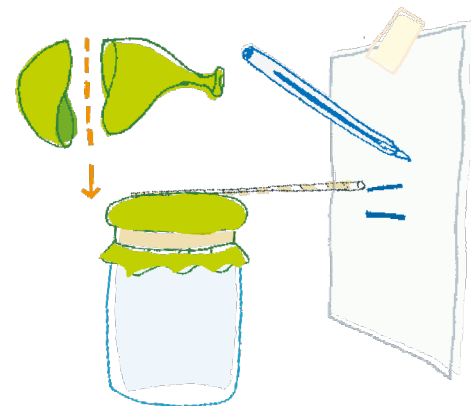
(with adult supervision)

A straw

Tape

A sheet of paper

A pen



How does it work?

As the air is sealed inside the jar, any changes to the air pressure outside the jar will result in direct movement of the balloon rubber. As the outside air pressure increases, the rubber will be forced down into the jar. The straw pivoting on the glass will rise upward. The opposite is true when the pressure decreases.

Design icons

Barometers are used by weather forecasters to help predict the weather.

