

Barnsley Museums Makes: Biram's Lamp



Benjamin Biram managed Earl Fitzwilliam's mines in the 1850's and created this version of a safety lamp. It was unsafe to just use candles as gases from the mines could cause an explosion when they met the flame. The Biram Safety Lamp kept workers safe and provided important light to work.

Another of Biram's inventions was the Whirly Gig- read a comic with a mystery all about this here:

<http://www.barnsley-museums.com/mystery-of-the-whirly-gig>

You will need:

2 x A4 thin pieces of card,
ideally brown

Ruler

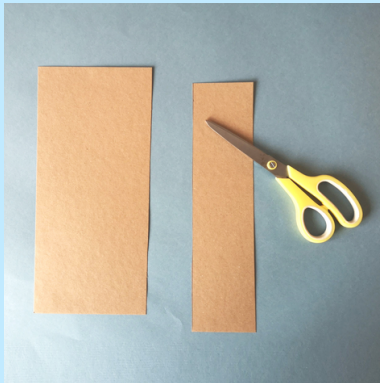
Pencil

Scissors

Tape

Glue

Decorative bits such as
sweet wrappers or
coloured paper



Cut a strip of card from the top of the first piece, around 7cm in width and keep to one side



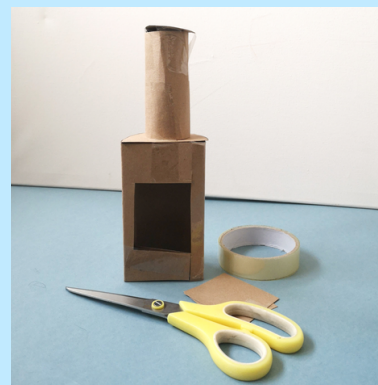
On the bigger piece, fold the edges of the card to meet in the middle, so that you have three sections in the card.



Stick together to create a semi circle 3D shade, draw around the top on the card you cut earlier, cut and stick on the top. The flat side is the front of the lamp.



Cut a piece of card around 9x15cm from the other piece of card and make into a tube shape, stick down and add a circle on top.



Carefully cut out a square from the front of your lamp by cutting up from the bottom. Stick where you cut back together with tape.



Decorate the flame using your collage materials and add details on the lamp. Don't forget to add a handle using a strip of the card, stuck with tape.