

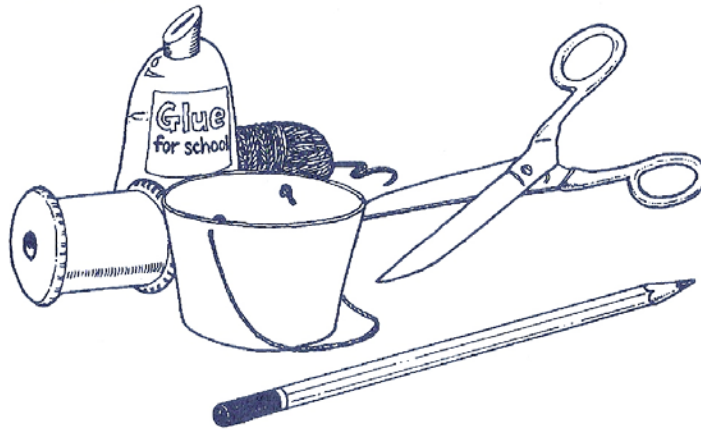


TECHNOLOGY

Make a model mineshaft: 1

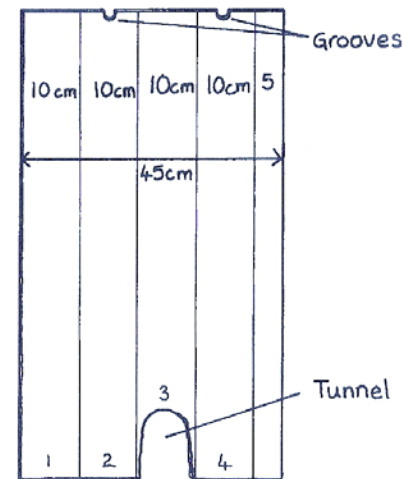
You are going to make your own model mineshaft.

You will need: an old yoghurt pot; a large sheet of cardboard; a cotton reel; a pencil; string; adhesive and scissors.



The corve

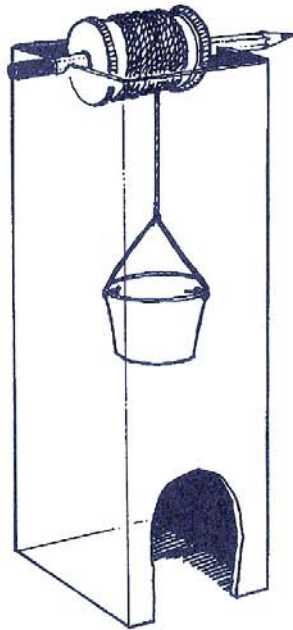
Cut away the bottom half of the yoghurt pot. This will be used as the corve, or basket, to carry things from the surface to the tunnel. Make small holes opposite each other near the lip of the pot, then thread a piece of string through each hole and knot it to make a loop.



The shaft

Take a long piece of cardboard (the longer the better) and cut it to 45cm in width. Draw lines to mark it off lengthways in four 10cm columns with a 5cm column at one edge. Cut a tunnel entrance at the bottom of one of the 10cm columns, then fold along the lines to make a square tube. Cut a small groove at the tops of two opposite columns and then glue the 'mineshaft' together using the 5cm strip.

Make a model mineshaft: 2



The winding gear

Push a pencil or piece of dowel through the hole in the centre of the cotton reel. Tie one end of a long piece of string to the loop attached to the corve and wrap the rest around the cotton reel. Rest the pencil in the grooves at the top of the mineshaft so that the cotton reel is at the top of the mineshaft and the corve is hanging down inside. Lower the corve to the bottom of the shaft.

- ❖ Once you have completed your model, experiment to see how much weight it can carry by adding model miners made from Plasticine to the basket.
- ❖ Make a list of the dangers men faced underground when travelling like this.
- ❖ Imagine that you are the overman, or manager, of a coal mine. When your miners start work it is important to know who is going underground and when they return to the surface. Why would you need to know this and can you think of a way of keeping an exact check?
- ❖ Write a report together with any diagrams you think will be helpful to explain your plan.

