

Roberts Workshop Card Cut-out

BALANCING PARROT

Colour and cut round parrot.
Stick a blob of modelling material
or Blutack™ to its tail so that it
will sit on your finger, rocking
gently to and fro.



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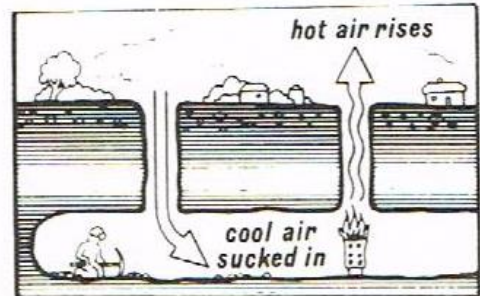
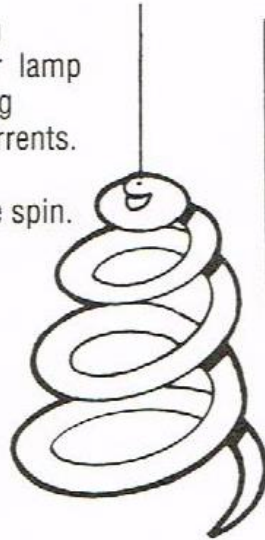
SPINNING SNAKE

Colour and cut out as illustration. Attach thread to snake's head and suspend over lamp or radiator. Hot air always rises - causing thermal currents of air, or convection currents.

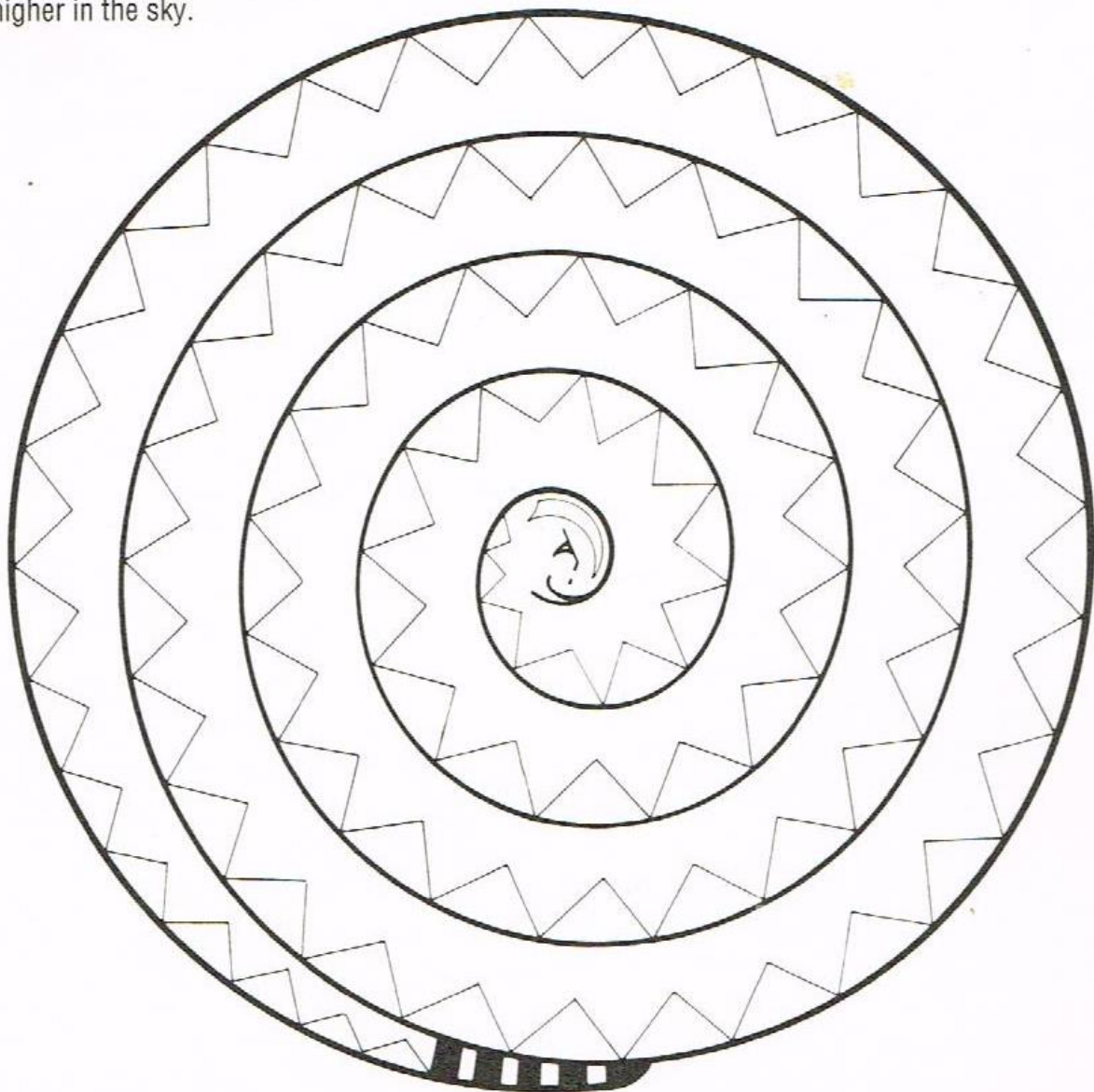
The rising warm air will make your snake spin.



Glider pilots use thermal currents (over warm houses, or near the sea by day when the land gives off heat) to rise higher in the sky.



Miners used thermal currents. By lighting a fire at the bottom of a mine shaft, the warm air would rise out - sucking cool fresh air down a second shaft to take its place.



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WINDMILL

Cut out mill, roof and sails. (Roll the mill body around a pencil to make it curl).

Cut round flap A on front of mill where shown.

Fold sails along dotted lines.

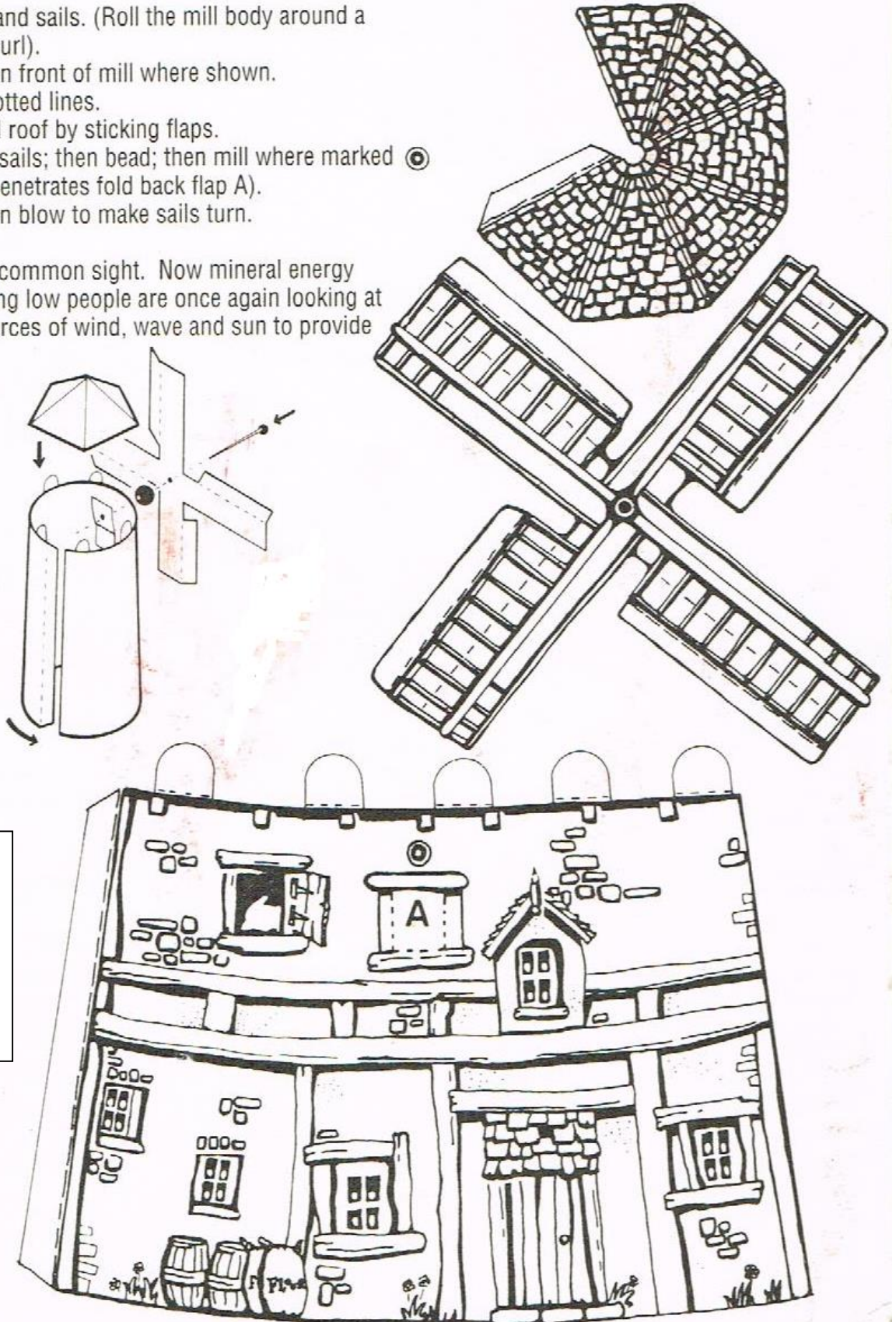
Construct mill and roof by sticking flaps.

Push pin through sails; then bead; then mill where marked (●)

(Ensure pin also penetrates fold back flap A).

Glue roof on top and blow to make sails turn.

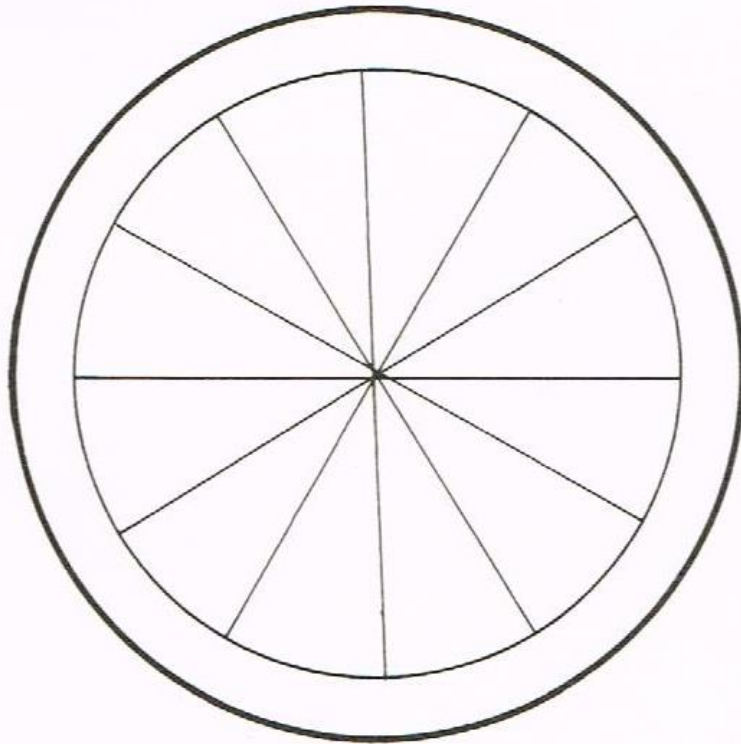
Windmills were a common sight. Now mineral energy sources are running low people are once again looking at natural power sources of wind, wave and sun to provide energy.



If you adjust the Sails, you can blow on them and the sails which will move the sails around.

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BREEZEBALL



Firstly cut along straight lines from centre to inner circle.
Fold the triangles out to alternate sides shown.

Cut the circle out.

Drop the Breezeball on the ground and just a small amount of wind will make it travel faster than you might expect!

In nature many plants use wind action to spread their pollen or seeds. Baby spiders 'fly' on gossamer threads so that the wind can spread them over a wide area.

In America, tumbleweed is blown by the wind rather like the Breezeball.

This small project will demonstrate how deflected air will power a craft

FUN FISH

Cut the Fun Fish out, including the channel and hole in the tail. Place it in a bowl of CLEAN water and put a drop of oil into the hole in his tail. Oil has tremendous ability to spread out very thinly.

As the oil floats and spreads over the water it will move the Fun Fish forward.

This will demonstrates how the difference in the surface tension of the 2 liquids acts as the power to move the Fish.

