

ENGINEERING
CHALLENGE

12

DESIGN AND BUILD A HELICOPTER



THE
JAMES
DYSON
FOUNDATION

DESIGN AND BUILD A HELICOPTER

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Designed by Ahmed,
Design engineer at Dyson

The brief

Design and build a helicopter using only paper and paperclips.

The method

1. Take a piece of paper and make three cuts as shown in the illustration. Then fold the paper in on itself at the bottom half – use a paper clip to keep the sides together.
2. Fold the two halves of the remaining paper away from each other, to form the helicopter blades.
3. Stand carefully on a chair and drop your helicopter, making sure it stays upright as you let go!

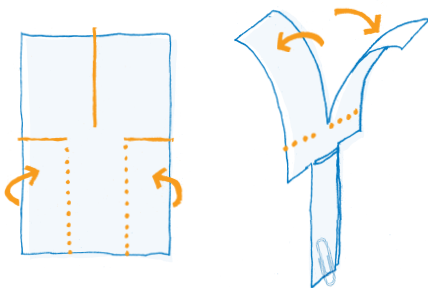
Materials

A4 sheet of paper

Paper clips

Scissors

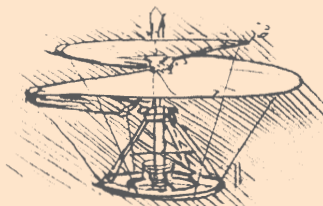
(with adult supervision)



Design icons



Juan de la Cierva's Cierva C.8.



Leonardo da Vinci's Aerial Screw.