

ENGINEERING
CHALLENGE

12

DESIGN AND BUILD A HELICOPTER



THE
JAMES
DYSON
FOUNDATION

DESIGN AND BUILD A HELICOPTER

ENGINEERING CHALLENGE 12

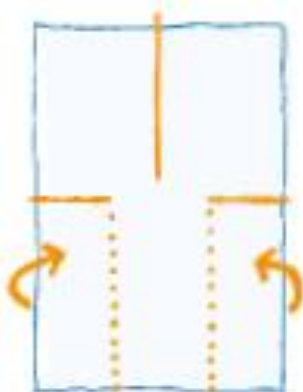
Designed by Ahmed,
Design engineer at Dyson

The brief

Design and build a helicopter using only paper and paper clips.

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

A sheet of paper

Paper clips

Scissors

(with adult supervision)

Design icons



Juan de la Cierva's Cierva C.B.



Leonardo da Vinci's Aerial Screw.