

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 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!

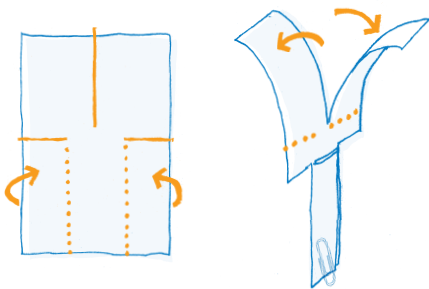
## Materials

A4 sheet of paper

Paper clips

Scissors

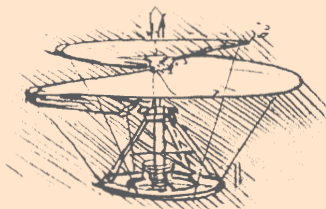
(with adult supervision)



## Design icons



Juan de la Cierva's Cierva C.8.



Leonardo da Vinci's Aerial Screw.