

# The Wings Challenge

One sheet of paper.  
How far can you make it **fly**?

## RULES FOR EVERYONE



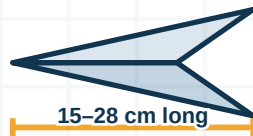
ONE sheet  
of paper



Throw by hand  
behind the line



Measure where  
it lands



8-20 cm wingspan

15-28 cm long

## PICK YOUR CHALLENGE — OR DO BOTH

### Engineering

#### CHALLENGE 1

Fly the greatest distance possible.

- ◆ Work in a team of 2-4
- ◆ **NO** tape, paper clips or staples
- ◆ No more than TWO redesigns
- ◆ It must fly on its own
- ◆ Record every throw — even the bad ones
- ◆ Explain your improvements using your data

### Artistic

#### CHALLENGE 2

Decorate it to send a message.

- ◆ Work alone or in a team of 2-4
- ◆ It must fly at least 1 METRE
- ◆ Decorate it — colours, patterns, stickers
- ◆ Writing? Make letters large and bold
- ◆ Be ready to explain your message

The one rule that matters: change only ONE thing between designs. Change three at once and you'll never know which one worked. A throw that fails isn't failing — it's data.

## SKETCH THREE DESIGNS BEFORE YOU FOLD ANYTHING

DESIGN 1

DESIGN 2

DESIGN 3

NAME(S)

SCHOOL

BEST FLIGHT \_\_\_\_\_ m