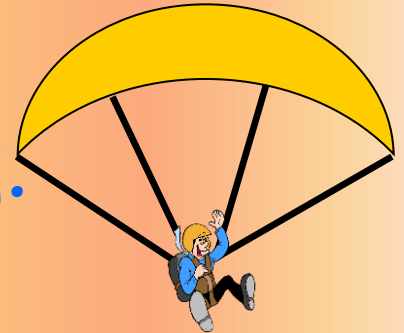


Lesson 2
Gravity
and
Air Resistance

**WHAT IS THE BEST SIZE FOR
A PARACHUTE?**

Re-Cap

- Yesterday we looked at air resistance and how parachutes fall.

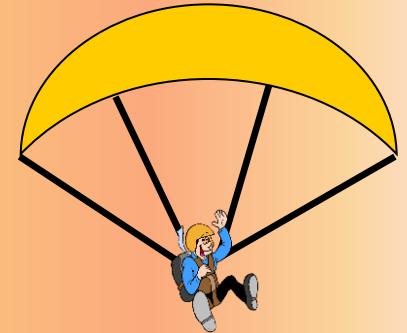


Today we will:

- Make 2 parachutes
- Drop them from the ceiling
- Record results

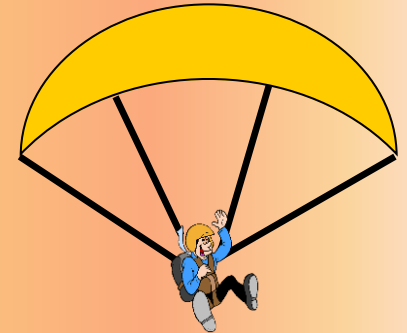
Making the parachutes

- Cut out 2 plastic bags.
 - $10\text{ cm} \times 10\text{ cm} = 100\text{ cm}^2$
 - $20\text{ cm} \times 20\text{ cm} = 400\text{ cm}^2$



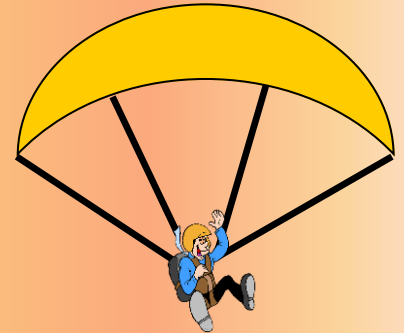
Making the parachutes

- Now affix a weight (blue tac or a figure) to the parachute with string or floss.



Test

To make it a fair test you need to drop from the same height and measure the time it takes to reach the floor.



Results

(Draw table in your book)

Parachute	Size	Area	Height	Time to fall (secs)
1	10 x 10cm	100cm ²	2.5m	
2	20 x 20 cm	400cm ²	2.5m	

Conclusion. Which parachute fell the fastest?