Forces In Action — Worksheet 3A

Name: _____ **Date:** _____

How does the size of a parachute affect the speed at which it falls to the ground?

How will you carry out your experiment?

What will you keep the same?	What <u>one</u> thing will you change?	What will you measure?

Prediction:

Results:

Parachute	Time

Conclusion:

Has your experiment raised more questions? What further experiments could you do?

Name: _____ Date: _____

How does the size of a parachute affect the speed at which it falls to the ground?

How will you carry out your experiment?

How will you make it a fair test?

Prediction:

Results:

Conclusion:

Has your experiment raised more questions? What further experiments could you do?

Name: _____ Date: _____

How does the size of a parachute affect the speed at which it falls to the ground?

How will you carry out your experiment?

How will you make it a fair test?

Prediction:

Results (drop each parachute three times, then find the average time):

Parachute	Drop 1	Drop 2	Drop 3	Avg. time

Conclusion:

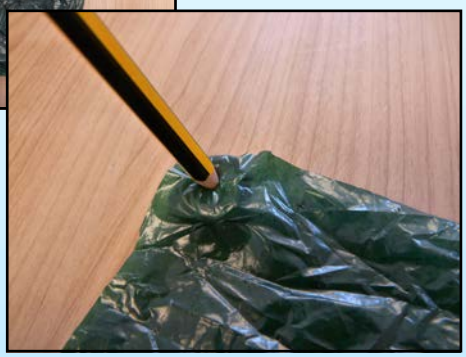
Has your experiment raised more questions? What further experiments could you do?

You will need:

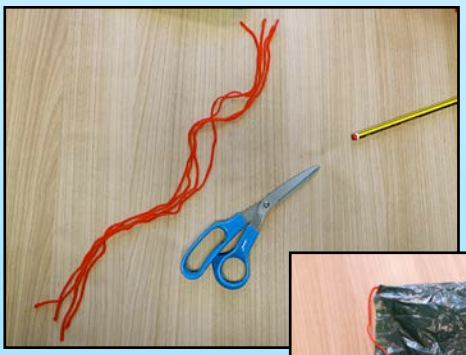
A plastic carrier bag
String or wool
Scissors
Sticky tack or plasticine
A paper clip
A rubber band

...and, of course, a sky diver!

Cut a large square out one side of the plastic carrier bag.



Use a sharp pencil and some plasticine to make a hole in each corner of the square.

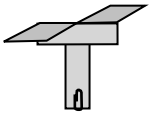


Cut four pieces of string or wool so that they are of equal length (around 40-50cm works well).

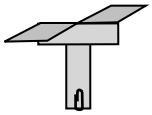
Tie one end of each piece of string or wool to each corner of your parachute. Tie the other ends together.

Use a paperclip and a rubber band to attach your sky diver to the parachute. For smaller parachutes, use slightly shorter pieces of string or wool.

Name: _____ Date: _____



Spinner Investigation



What are you trying to find out?

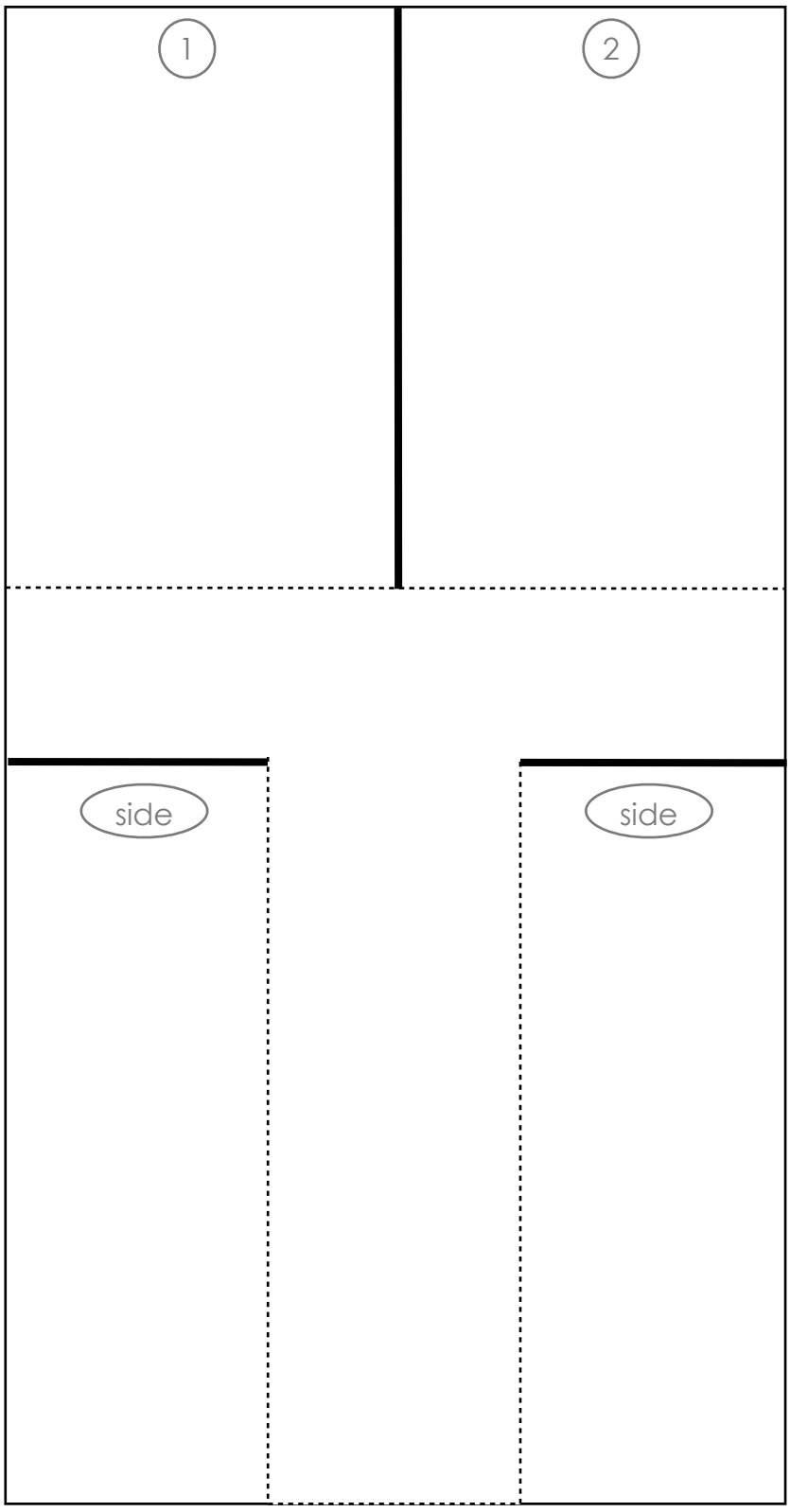
What will you need?

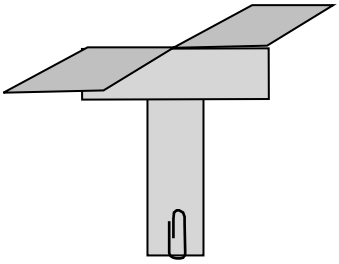
How will you make your experiment a fair test?

How will you record your results?

Draw a labelled diagram of your experiment:

What do you predict will happen and why?





1. Cut around the outside rectangle.

2. Cut along the 3 thick lines up to the dotted line.

3. Fold flap 1 towards you along the dotted line.

4. Fold flap 2 away from you along the dotted line.

5. Fold along the remaining 2 dotted lines and glue the two sides flaps to the centre so there is one central column.

6. If you are using paper clips, attach one to the bottom of the centre column.

7. You are now ready to test your spinner!