- Objective focus:

taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate

Children will investiage how the weight of a spinner affects the time taken to hit the floor.

They can use a litter picker to drop it from a high height if you don't want to stand them on chairs!

All children need a completed results chart for next weeks lesson where they will calculate the mean drop time for each weight and produce a graph.

Please make sure the number of paperclips goes up in increments of 2, 4, 6, 8 so we can predict the drop time of 3, 5 and 7 paperclips. Enjoy!!

LO: To take accurate measurements

I can use a stopwatch efficiently

I know how to design a suitable results table

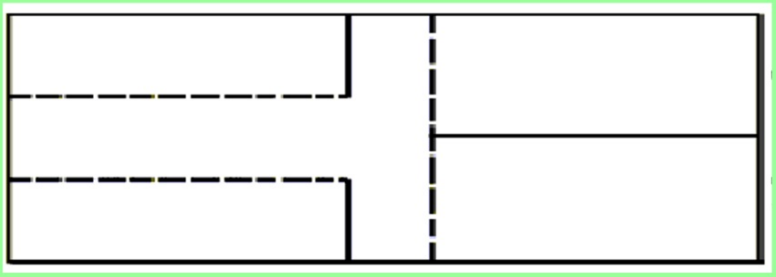
I understand why we take repeat measurements

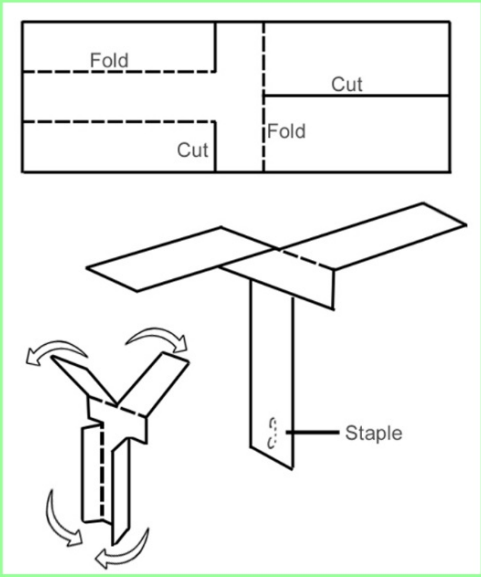
Working Scientifically

10 mins

Teacher: you may want to make one before the lesson!
You can use paperclips instead of a staple.

Follow your teacher to make a paper helicopter spinner.
Have a couple of minutes exploring how it works.

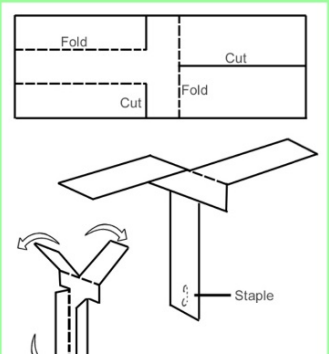




Today's question: How does the weight of the helicopter affect the time taken for it to land.

5 r

How are we going to investigate this using the following equipment?



Have a think about the questions below and answer them!

We are focusing on taking accurate measurements.

What are we measuring?

Why might we want to take more than 1 measurement for each weight of helicopter?

How many shall we take?

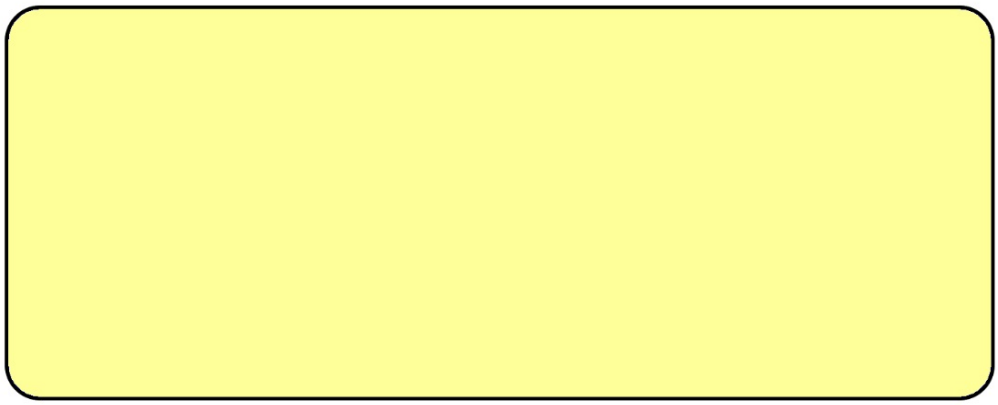
Can you draw a table like the one below to record your results?

How many weights will we do?
How many tries at each drop? Design your table.

Number of paperclips	Drop 1	Drop 2	Drop 3

Roles
Dropper
Stop watch person
Results recorder
Helicopter collector

What do you predict will happen with each new drop? make a note of your prediction.



Record here and screen shot for books

Complete your results chart we will use the results next week so save them please :-)