

- recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs

Teach children how to calculate the mean drop time using last weeks results

model how to plot this on a line graph

ask and answer questions using the graph.

lesson 4



Working Scientifically

LO: To present my results

I know how to calculate the mean drop time for each spinner weight

I can plot my results on a line graph with a suitable scale

I understand how to use my graph to ask and answer questions

Last weeks question:
How does the weight of
the helicopter affect the
time taken for it to land.

Last week's results chart

Number of paperclips	Drop 1	Drop 2	Drop 3
2	1.01	0.91	0.72

The mean drop time is calculated by adding all the drop times for a given weight and dividing it by the number of drops.

Weight of Paperclip	Mean Drop Time
2	$1.01 + 0.91 + 0.72 = 2.64$ divided by 3 (the amount of drops) $2.64 / 3 = 0.88$

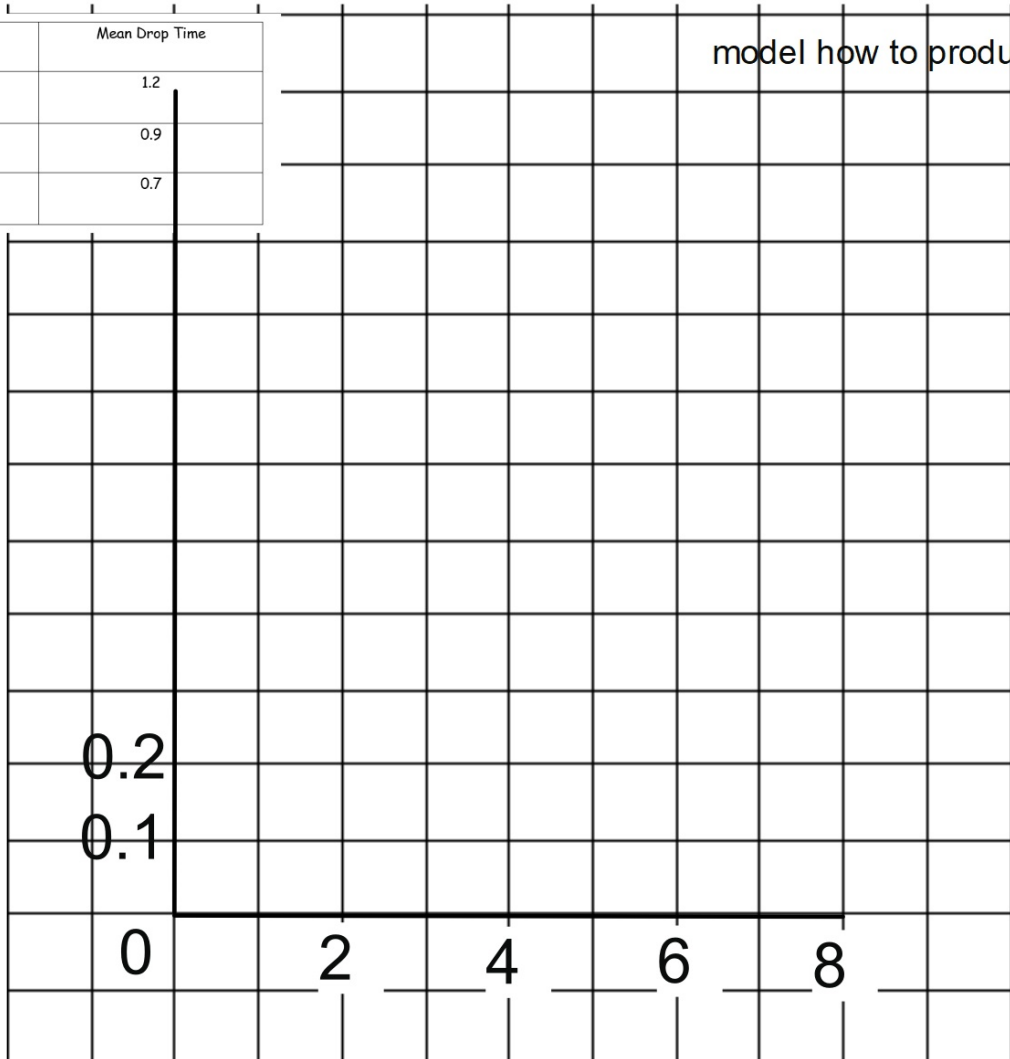
Use a calculator

Now you have calculated the mean drop time for each weight, we are going to plot it as a graph.

Weight of Paperclip	Mean Drop Time
2	1.2
4	0.9
6	0.7

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2	1.2
4	0.9
6	0.7

model how to produce a line graph



Now you have produced your graph, can you answer these questions using it?

1. What was the quickest time for the spinner to fall?
2. What was the slowest time for the spinner to fall?
3. How long do you think it would take a spinner with 3 paperclips to reach the ground?
4. What is the difference between the slowest and fastest spinner?
5. Can you predict how long it would take for a spinner with 8 paperclips to land?

Can you write your own question to answer using the graph?