

101

ATMS
EDUCATION

FUN AND EASY RECIPES

with

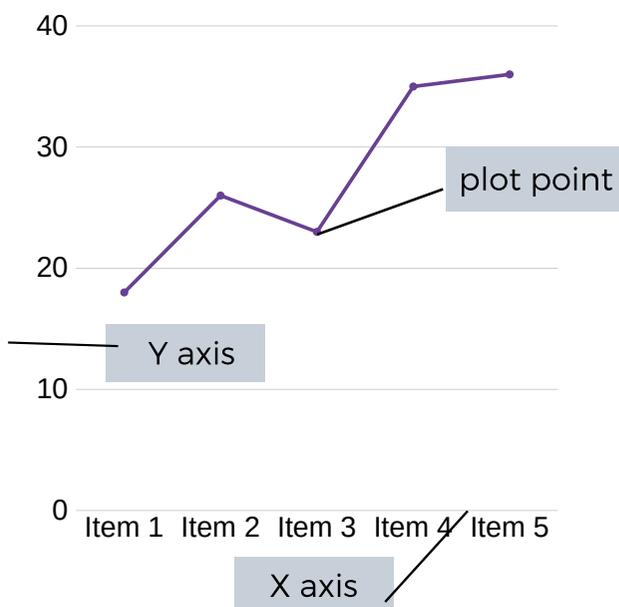


GIANT FLOOR LINE GRAPH

Equipment you will need:

string
small objects e.g. lego, buttons or bottle tops
paper
pens

Line graph example:



Why not create a line graph of one of the following:

- how much a plant grows over a number of days
- the population of a country over time
- the number of subscribers to your favourite YouTube channel over time
- the temperature increase when melting chocolate.

WHAT TO DO

1. Decide what you are going to measure over a period of time - this may be one of the ideas suggested or one of your own.
2. You may need to take measurements yourself over a period of 3-4 weeks. You can record your information in a table.

No. of days	Number of subscribers
1	15
10	35

Each column will represent an axis on your graph.

3. When you have 4-5 or more measurements you can begin to create your graph.
4. Begin by using the string to create the x and y axis on the floor. Use as much or as little space as you like!
6. Label your **X axis** with the **time** e.g. number of days. Label your **Y axis** with the **thing you are measuring** e.g. number of subscribers or height of a plant.
7. Use small pieces of paper to put the numbers along the X and Y axis. Ensure they increase using multiples of 1, 2, 5, 10 etc - whichever is sensible for the data you have.
8. You can now begin to use your small objects e.g. lego to plot the points. For example, if I used the above grid, I would go along the X axis to number 1 then up the Y axis to 15 and place my lego piece. You then move along the X axis to 10 and up the Y axis to 35 and plot your point. Continue until you have plotted all of your data.

9. You can now use string to join your plot points to create your line graph.

This activity can be used as part of a project e.g. learning about how plants grow or a Design and Technology project like Rocky Road Creations.

There are benefits of creating a floor graph. These include increased concentration due to being active and increased retention of information about the graph. As your child will be able to move around the graph, it may be easier for them to make comparisons between plot points.