



Starters 5-10 mins

Snack, Cackle & Pop..... 2 mins

Snack: we ♥ food, grab a snack before beginning!

Cackle:

I'll do algebra, I'll do trig and I'll even do statistics, but graphing is where I draw the line.



STEMettes

Pop: Stemillions playlist on Spotify:

bit.ly/stemillionsplaylist

Meet Her..... 5 mins

Loving numbers and problem solving, Emma's first role was part of a business analytics team who used maths to provide evidence to decision makers in the defence industry. With 10 years of experience under her belt, she joined G-Research in February last year and now head a small team who use the same techniques to help the business make evidence-based decisions about the workforce.

Discuss:

- ★ What do you think of Emma's job?

Desserts 5 min

Share with us 1 min

Upload photos on [Twitter](#) or [Instagram](#) and tag @Stemettes and #Stemillions.

Ask Them..... 2 mins

Got a question? Ask Away! bit.ly/Ask-Away

Digest..... 2 mins

Digest this Meal Plan - fill out the feedback form.

Mains 20 mins - choose ONE only

MAKE..... 20 mins

Ingredients: 2 sheets of paper, pen, tape measure.

There are 2 very important roles behind data, firstly you have to collect the data, then you need to analyse it. In this activity we will do both.

Firstly, you need to make a paper plane. You can use this video to help you make the plane.

Now you need to fly your plane, get another member of your household to measure how far the plane went. Record it down. Get other members of your household to fly the plane and measure the distance it flies too. Each person should get 3 turns.

On a separate piece of paper, we will make a tally chart to analyse this data. We will need the following categories:

- | | |
|-------------|--------------|
| ★ 0-20 cm | ★ 101-120 cm |
| ★ 21-40 cm | ★ 121-140 cm |
| ★ 41-60 cm | ★ 141-160 cm |
| ★ 61-80 cm | ★ 161-180 cm |
| ★ 81-100 cm | ★ 181+ cm |

EXPLORE..... 20 mins

Ingredients: pen, 2 pieces of paper

Part of Emma's job is understanding and visualising data. In this activity we will have a go at visualising the data of people's names.

On a piece of paper, draw an empty bar chart with the bottom line/axis having numbers from 1-10.

On another piece of paper, write down your first name and cut it out. How many letters are in your name? Put your name in the correct column.

Now do the same with other people from your household, your friends, your classmates.

- ★ Which column has the most names in? This means most people's names are this long.
- ★ Which column has the least names in? This is the least common length of name.