



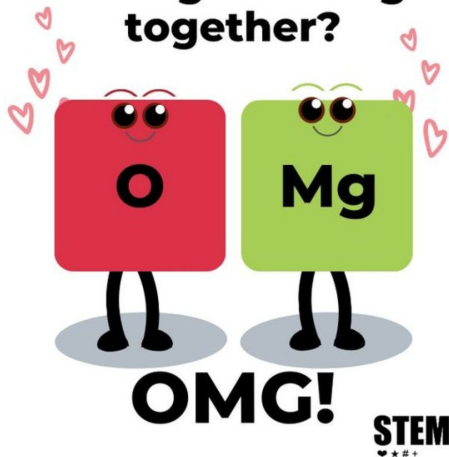
Starters 5-10 mins

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

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

Cackle:

Did you hear oxygen and magnesium got together?



Pop: bit.ly/stemillionsplaylist

Meet Her..... 5 mins

Tracey has been with GCHQ for 14 years. Tracey has done a range of jobs including software developer, software tester, requirements engineer, technical manager and project manager.

Discuss:

- ★ What do you have in common with Tracey?
- ★ What do you think of Tracey'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 40 mins

EXPLORE..... 40 mins

Ingredients: pen, colouring pencils, squared paper (or draw your own squares on plain paper)

Tracey's absolutely loves programming so in this activity we will have a go at Tracey's activity which helps us learn the basics of programming.

1. Draw out a birds eye view of your bedroom on a piece of paper.
2. Around the room, draw in clothes, books, empty water bottles, DVD's and banana peels. Put about 10-12 items in your room.
3. The task is to tidy your bedroom, but in this scenario there is a robot that will clean the room for you.
4. You need to give the robot instructions to sort the mess into laundry bin, rubbish bin, recycling bin, book box or DVD box. Draw these containers into your room.
5. These are the instructions the robot understands:

```

Robot.go_up(number of squares)
Robot.go_down(number of squares)
Robot.go_left(number of squares)
Robot.go_right(number of squares)
Robot.pick_up_object
Robot.put_down_object
Robot.open_container
Robot.close_container

```

6. Write down the code for the robot to pick up each item and place them in the correct container. Put the number of squares where the red writing is above.
7. Write down the code so the robot can pick up all the items and tidy your room for you.
8. Share your drawing of your room and the instructions with us at team@stemettes.org.