



## Starters 5-10 mins

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

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

Cackle:



**Engineer**



**Engifar**

Pop: Stemillions playlist on Spotify:

[bit.ly/stemillionsplaylist](http://bit.ly/stemillionsplaylist)

Meet Her..... 5 mins

Pooja is a Subagent (Civil Engineer) working for John Sisk & Sons in their Civils UK Division. She is currently working on an infrastructure project which includes a Bridge and a Road in Burgess Hill. She's a chartered member of the CIOB and working towards incorporated status with the ICE.

Watch: [Meet Pooja here](#)

Discuss:

- ★ What do you have in common with Pooja?
- ★ Why do we need engineers for our roads?

## 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](http://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:** toilet roll tubes/tubes of paper, sticky tape, marble/small ball.

When designing roads, Pooja has to think about the route cars will take and how this will affect their journey. In this activity you will create a route for a marble or a small ball to travel down.

1. Tape the toilet rolls/paper tubes to the wall or window so the ball can roll through them. You might need to cut the tubes open to make this work.
2. Test your route to make sure it works for the ball and modify your route if it doesn't.
3. Once you've mastered the tube shape, do any other shaped tunnels work? How many different shapes can you incorporate into your route?
4. Does your route work for other ball types? What if you had a ball of tin foil or a pom pom - do these still go down the route well?

Challenge time - can you create a route that will keep the ball going for 10 seconds?

Remember to take photos of the route you made, we love to see what you made!

EXPLORE..... 20 mins

**Ingredients:** paper, colouring pencils.

Pooja works to improve our roads. Our roads are getting smarter, they tell us when to slow down, when there is traffic and more. Draw what you think our cars will look like in 50 years time!

- ★ How can you make cars safer?
- ★ Can you make them more eco-friendly?
- ★ What will the inside look like too?
- ★ How many people can fit inside each car?