STEMILIONS Roma Agrawal

First released Spring term 2018



Meal Plan#03230 mins

Starters 5-10 mins

Snack, Cackle & Pop...... 2 mins Snack: grab a snack before you begin! Cackle:



Engineer



Engifar

Pop: Stemilions Playlist on Spotify bit.ly/stemillionsplaylist

Watch: bit.ly/032MeetThem

Discuss:

- ★ What do you think of Roma's job?
- ★ If you could design any building, which one would it be?

Desserts 5 min

Share with us 1 min
Upload photos on <u>Twitter</u> or <u>Instagram</u> and tag
@Stemettes and #Stemillions.
Ask Them 2 mins
Got a question? Ask Away! <u>bit.ly/Ask-Away</u>
Digest 2 mins
Digest this Meal Plan - <u>complete this form.</u>

Mains 20 mins - choose ONE only

MAKE...... 20 mins

You will need: A4 paper, sticky tape, books.

Many buildings use columns to help hold them up. What shape do these columns need to be?

- 1. Take 3 pieces of A4 paper.
- 2. On each piece of paper and tape the long sides together, make sure there is a 6cm overlap.
- 3. You should now have 3 cylinders. Take 1 cylinder & shape it into a triangle. Take the final cylinder and shape it into a square.
- 4. Now you have 3 different shaped columns.
- 5. Now test the strength of each column by carefully adding books to the top.

Which shape is the strongest? Next time you go to a big building or a parking garage, look out for the columns in the building.

EXPLORE...... 20 mins

You will need: your imagination.

Roma likes to dance in her spare time. Create a dance to show how The Shard was constructed. Indian classical dancing, ballroom & latin are Romas favourite dance styles, but choose any style. Feb 2009 - the old building is demolished to make room for The Shard and construction begins Oct 2009 - a concrete core is poured to make a stable centre for the building

May 2010 - the concrete core is at 80m high and cranes begin to add metal and glass to the outside Nov 2010 - The Shard becomes the tallest building in London, builders keep adding the glass exterior Feb 2011 - the concrete core reaches its final height Mar 2012 - The Shard reaches its final height when the spire is added to the top

Jun 2012 - The Shard is opened to the public