

**Starters** 5-10 mins

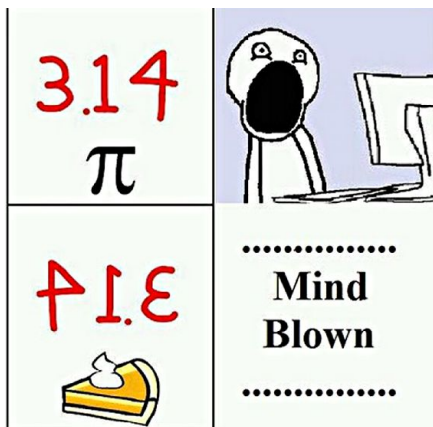
Announcements..... 1 min

Share club member achievements.

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

Snack: Candy Kittens! Yummy

Cackle:



Pop: Stemillions playlist on Spotify:

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

Meet Them..... 5 mins

Dr Eugenia Cheng is a mathematician, pianist & best-selling author. She is currently the Scientist in Residence at the School of the Art Institute of Chicago, Honorary Fellow of the University of Sheffield & Honorary Visiting Fellow of City University, London. Her 1st book "How to bake Pi" teaches you maths through baking desserts.

Watch: [bit.ly/049MeetThem](http://bit.ly/049MeetThem)

Discuss:

- ★ What do you think of Eugenia's video?
- ★ What is a hypotenuse?
- ★ Dr Eugenia currently lives in Chicago - if you could live anywhere where would you live and why?

**Mains** 20 mins - choose ONE only**MAKE**..... 20 mins

For this activity you will need Starburst or other square sweets. This video explains the activity:

[bit.ly/049make](http://bit.ly/049make).

- ★ Draw a right-angle triangle with the short sides being 3 and 4 starbursts long and the hypotenuse 5 starbursts long.
- ★ Create a square on each side of the triangle, so on the 3 side, the square will be 3x3.
- ★ Now take the starbursts from the two shorter sides and place them on top of the sweets that form the hypotenuse.

Do the starbursts from the shorter sides completely cover the longer side? Now try these triangles?

- ★ 6, 8, 10?
- ★ 4, 5, 6?
- ★ 5, 12, 13?
- ★ 2, 3, 4?

Why do some of these work and others don't?

Which other combinations of numbers will work?

**EXPLORE**..... 20 mins

Dr Cheng is a mathematician and pianist. Make a song/rap about your favourite topic in maths. Maybe you like fractions, multiplying, shapes; it can be anything! You could look up music to sing/rap along to on YouTube, but the most important aspect is the lyrics! Perform your hit song to the rest of your club. If you want some inspiration, check out this video on angles: [bit.ly/049explore](http://bit.ly/049explore)

**Desserts** 5 min

Share with us ..... 1 min

Upload photos on Twitter or Instagram and tag @Stemettes and #Stemillions.

Ask Away..... 2 mins

Got a question? Ask Away! [bit.ly/Ask-Away](http://bit.ly/Ask-Away)

Digest..... 2 mins

Digest this Meal Plan [bit.ly/digest049](http://bit.ly/digest049)