

# Weronika Czerniawska

First released Summer Term 2018



Meal Plan  
#035  
30 mins

## Starters 10 mins

**Announcements..... 3 mins**

Nearby upcoming STEM events & competitions (check out 'Upcoming Events' on OtotheB app), announce club member achievements and welcome new members.

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

**Eat:** M&M's - yum

**Listen:** 'Lullaby' by Sigala and Paloma Faith

**Joke:**



**Meet Her..... 5 mins**

'I am a PhD student [at the University of Nottingham]. My research area and my passion is Number Theory. I am happy I can do what I love.'

**Watch..... 2 mins**

[Meet Weronika in this video](#)

**Discuss..... 3 mins**

- ★ What is number theory?
- ★ How many famous mathematicians can you think of?
- ★ How many female mathematicians can you think of?

## Mains 15 mins - choose ONE only

**MAKE..... 15 mins**

Happy numbers are numbers that, when the digits are squared, added together, then take the result and repeat you eventually come down to 1. E.g. 32:

$$32: 3^2 + 2^2 = 9 + 4 = 13$$

$$13: 1^2 + 3^2 = 1 + 9 = 10$$

$$10: 1^2 + 0^2 = 1 + 0 = 1$$

[This video also explains the process](#)

Unhappy numbers do not come down to 1.

Determine whether the following numbers are happy or unhappy:

- ★ Your age
- ★ Your year group
- ★ Your telephone number
- ★ Your door number

**EXPLORE..... 15 mins**

Watch [this video](#) on number theory. Make a poster/infomercial explaining what number theory is. If you have time, explain what mathematicians like Weronika do today with number theory.

## Desserts 5 - 10 mins

**Share with us ..... 2 mins**

Upload photos of your MAKE or EXPLORE to the MightyNetworks or tweet/instagram and tag @Stemettes

**Ask Her..... 2 mins**

Post your Questions to the Agony Aunt Topic.

**Digest..... 2 mins**

Do the [#035 Digest](#) on OtotheB and MightyNetworks or [bit.ly/digest035](http://bit.ly/digest035)