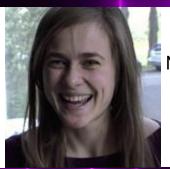
# STEMIllions

# 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:

### THIS YEAR'S BEST FESTIVAL



COUCHELLA

'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

- $\star$  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 <u>this video</u> 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

Digest...... 2 mins

Do the #035 Digest on OtotheB and MightyNetworks or bit.ly/digest035