

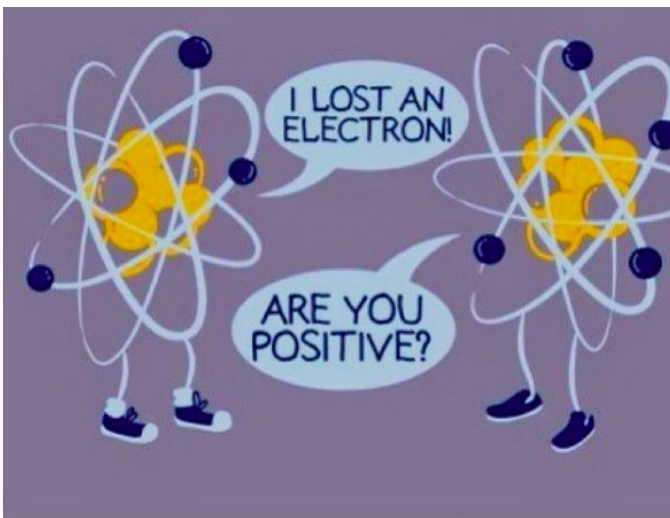


Starters 5-10 mins

Announcements..... 1 min
Share club member achievements.

Snack, Cackle & Pop..... 2 mins
Snack: Cereal Bar. Yummy!

Cackle:



Pop: Stemillions playlist on Spotify:
bit.ly/stemillionsplaylist

Meet Her..... 5 mins
Merritt Moore is a ballet dancer and quantum physicist. She has danced as a member of the Zurich Ballet, Boston Ballet, English National Ballet and London Contemporary Ballet Theatre while graduating with honours in physics at Harvard, and graduating with a PhD in Quantum Optics at Oxford University.

Watch: bit.ly/039MeetThem

Discuss:

- ★ What did you think of Merritt's video?
- ★ What do you think a Quantum Physicist does?
- ★ What is your favourite topic in physics?

Mains 20 mins - choose ONE only

MAKE..... 20 mins
Quantum physicists believe that particles can also appear as waves. To demonstrate how waves travel, you'll need 1 metre of tape, skewers/straws and sweets. Follow the instructions below:

- ★ Along a strip of tape, line up the skewers/straws spaced 5 cm apart
- ★ Pull the tape tight and gently lift one skewer and let go - what type of wave forms?
- ★ Put some sweets on the end of the skewers/straws- what type of wave forms now?
- ★ What happens to the wave if you only put sweets on half the skewers?
- ★ How does the wavelength/ frequency differ each time?

This is a helpful video: bit.ly/038make

EXPLORE..... 20 mins
In quantum mechanics, there is a theory called 'The Many Worlds Interpretation'. This suggests that there are many different parallel universes where we exist. Draw a timeline of one day at your weekend detailing everything you did. Draw other timelines, imagining the following scenarios:

- ★ What if you had feet for hands?
- ★ What if there was no electricity?
- ★ What if we lived on Mars?

Desserts 5 mins

Share with us 1 min
Upload photos on Twitter or Instagram and tag @Stemettes and #Stemillions.

Ask Away..... 2 mins
Got questions? Ask Away! bit.ly/Ask-Away

Digest..... 2 mins
Digest this Meal Plan bit.ly/digest038