



Starters 10 mins

Announcements..... 3 mins

STEM events/competitions (check OtotheB), share achievements and welcome new members.

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

Snack: Mars Bar. Yummy

Cackle:



Meet Her..... 5 mins

'I'm Dr Jen Gupta, an astrophysicist who loves to talk about how awesome space is with anyone who will listen! I'm currently one of the hosts of the BBC Tomorrow's World Live series.'

Watch..... 2 mins

[Find out more about Dr. Jen](#) (stop at 3:00)

Discuss..... 3 mins

- ★ What is a constellation?
- ★ Dr. Jen gets to interview people all the time - if you could interview someone who would you interview?

Desserts 5 - 10 mins

Share with us 2 mins

Upload photos of your MAKE or EXPLORE to the MightyNetworks or tweet/instagram.

Ask Her..... 2 mins

Post any questions to the Agony Aunt Topic

Digest..... 2 mins

Do #045 Digest on MightyNetworks or bit.ly/digest045

Mains 15 mins - choose ONE only

MAKE..... 15 mins

3D constellations - there are 88 constellations, choose one constellation for this activity...

- ★ Research the main stars that make up that constellation and how many light years away these stars are from Earth.
- ★ On a piece of cardboard, mark out the placement of the main stars and label them.
- ★ Poke a hole through the cardboard to mark each star.
- ★ For each main star in your constellation, you need a piece of string/thread. Thread each string through the hole you made in the cardboard and tape in place on the back.
- ★ Now, cut each string using the scale of 2.5cm = 100 light years. So if a star is 200 light years away, cut the string 5cm in length from the cardboard.
- ★ Attach blue tac/tin foil/bead to the end of the thread to act as a star. Trim off the excess thread.

If your teacher will let you, hang your constellations from the ceiling so you can see the night sky in your classroom.

POst photos of all your constellations on Twitter and Instagram @Stemettes.

EXPLORE..... 15 mins

Dr. Jen hosts BBC Tomorrow's World Live on facebook and youtube ([watch an episode here all about the mind](#) - maybe don't watch it all!). In pairs or threes, create your own mini episode. Choose a STEM topic that you love, and create a short episode talking about your topic. You could record your mini episode and choose a few episodes to watch with your club or share it with us on

MightyNetworks so we can see too!

Visit stemillions.club to connect with other CSO's.

Any queries? Email stemettes@gmail.com or post in Mighty Networks.