



## Starters

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

Nearby upcoming STEM events & competitions, Club member achievements and welcome new members.

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

**Eat:** Black grapes. Yum

**Listen:** 'Counting Stars' by OneRepublic

**Science Meme:**



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

Dr Maggie Aderin-Pocock is a space scientist and science educator. She has a PhD in mechanical engineering and has managed many different projects all over the world, her instruments have even gone into space. Currently, she is a presenter of the BBC's 'The Sky at Night' and 'Stargazing'. Maggie, who is also dyslexic, still wants to fulfil her childhood dream, to become an astronaut.

Watch [youtu.be/Lo5hVlhSL4o](https://youtu.be/Lo5hVlhSL4o) (4 min video)

## Mains *choose ONE only*

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

Carry out your own experiment by attaching a piece of rope to a small object and rotate it. Change the object and identify what happens when you increase/decrease the mass of the object. Is more/less force required?

[youtu.be/csKOz56ck3g?t=27s](https://youtu.be/csKOz56ck3g?t=27s)

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

Design a poster in a pair that includes any examples of centripetal force that you can think of (e.g. rollercoaster loop, car around a roundabout etc). Compare with the rest of the group.

## Desserts

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

Upload a photo of your MAKE or summary of your EXPLORE to the online forum. Or tweet/instagram it (remember to tag us)

**Club Register..... 1 min**

Let us know the OtotheB usernames of people who attended this week in your group on MightyBell. You'll get less points per non-OtotheB person on your register.

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

Post your Questions for Maggie to the Agony Aunt Topic.

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

Do the #019 Digest on OtotheB, before the end of the day. [bit.ly/digest019](https://bit.ly/digest019)