

STEMillions⁺

Victoria Velez

First released Spring Term 2019



Meal Plan
#071
30 mins

Starters 5-10 mins

Announcements..... 3 mins
STEM events/competitions (check OtotheB), share achievements and welcome new members.

Snack, Cackle & Pop..... 2 mins
Snack: Pineapple - Yummy
Cackle:

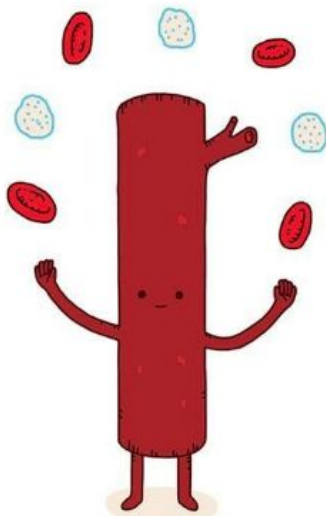


fig 1.

Jugular Vein

Pop: Stemillions Playlist - add your own music!!

Meet Her..... 5 mins
Victoria followed her heart to a career that focuses her love of hands-on problem solving into engineering medical technologies that save lives.

Watch: [meet Victoria in this video](#)

Discuss

- ★ What did you think of Victoria's video?
- ★ Did you think that balloons could be used to save lives?

Mains 20 mins - choose ONE only

MAKE..... 20 mins
Measuring the capacity of your lungs: for this experiment, you will need a big empty plastic bottle. Punch a small hole in the side of the bottle and feed a straw through it, seal any gaps with glue/blue tack. Fill the bottle with water. Each club member should take one big breath and blow up a balloon. Once you have run out of breath, twist the neck of the balloon to stop any air escaping. Take it in turns to place your balloon over the neck of the bottle and see how much water comes out. Measure how much water came out; this is the capacity of your lungs.
<https://youtu.be/Og2BNpqryZM?t=129>

EXPLORE..... 20 mins
Victoria's engineering work involves her knowing all the major veins and arteries of the body. Use [this webpage](#) to learn about some of the major veins and arteries of the body. You have 10 minutes to learn as much as possible about the. After your time is up, choose 9 of veins/arteries from the webpage. Your club lead/teacher, chooses 9 at random but only provides the description of them. When your 9 are called, shout 'BINGO!'; this club member wins.

Desserts 5 mins

Share with us 2 mins
Upload photos of your MAKE or EXPLORE to the MightyNetworks or tweet/instagram.

Ask Her..... 1 min
If you or your club have any questions, ask our STEM agony aunts; bit.ly/askagony aunt

Digest..... 2 mins
Do [#071 Digest](#) on MightyNetworks or bit.ly/digest071