

Whizz Kids Science Workshop (Series 7)

Date: 23rd September 2021

Time: 3pm-5pm

Venue: Online via Webex

Target home: The Salvation Army Penang Children's Home

Participants:

22 participants aged 5 - 17 years old plus 3 facilitators from Salvation Army

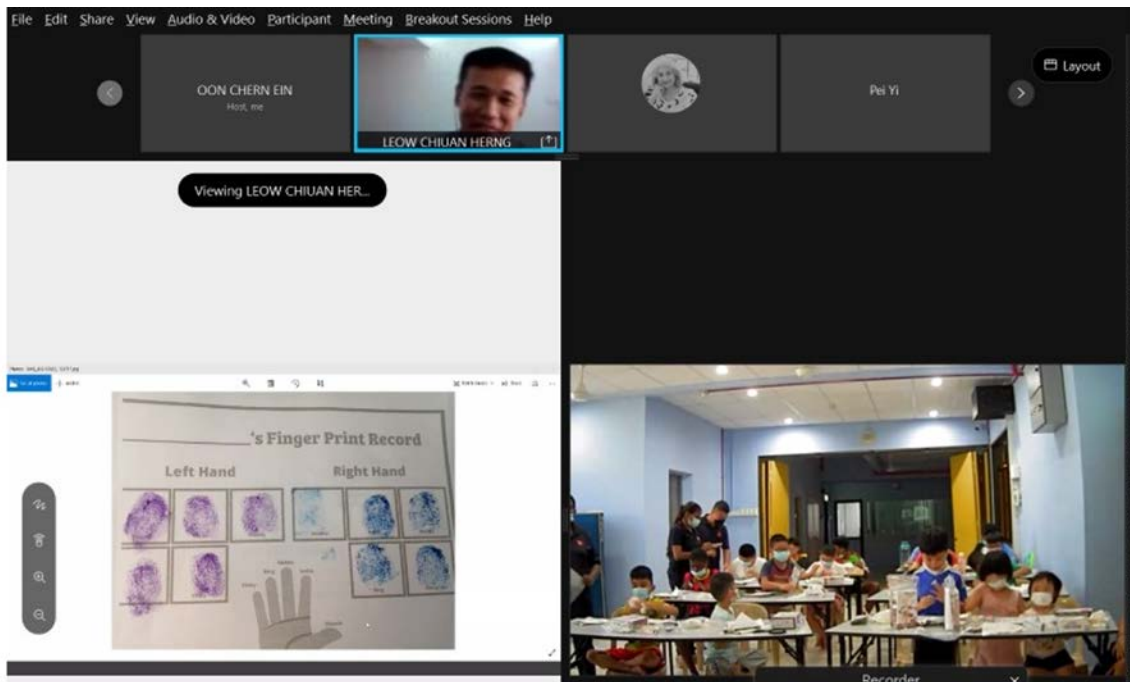
Short report

Penang –Dr Oon Chern Ein and her team were privileged to obtain funds from the Penang Education Council to organise a science workshop themed 'Know your body'. The workshop aimed to educate the underprivileged children at the Salvation Army Penang Children's Home to inspire the participants to choose a career in STEM particularly medical sciences. Some of the children are without proper identification documents or birth certificates as they were born out of wedlock, hence they had no opportunity to pursue formal education in school. The programme was run fully online via Webex, for the first time. The hands-on activities included 'Detective Who- Forensic Science', 'Dr Who' and 'Bye Bye Germs'. The programme was funded by Penang Education Council.

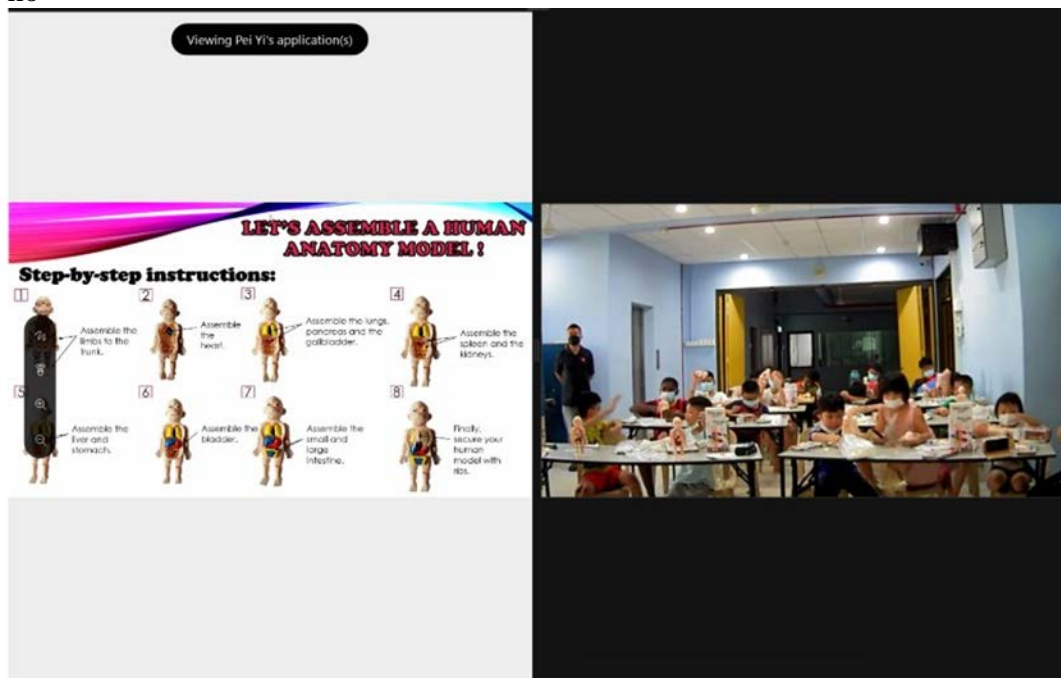
Non face to face packing and delivery



Detective Who- Forensic Science



Dr Who



Bye Bye Germs


Viewing Pei Yi's application(s)

THE CORONAVIRUS has a membrane of oily lipid molecules, which is studded with proteins that help the virus infect cells.

SOAP MOLECULES have a hybrid structure, with a head that bonds to water and a tail that avoids it.

SOAP DESTROYS THE VIRUS when the water-shunning tails of the soap molecules wedge themselves into the lipid membrane and pry it apart.

SOAP TRAPS DIRT and fragments of the destroyed virus in tiny bubbles called micelles, which wash away in water.



- ❖ **Virus, such as coronaviruses and the flu, is encoded by RNA (a coat of fat and protein).**
- ❖ **When the side of the soap molecule that is attracted to fat and protein inserts itself into the virus's shell, the chemical bonds holding the virus together are broken apart.**
- ❖ **The broken virus is not soluble in water, therefore it disintegrates and is washed down and drain.**
- ❖ **Even if the virus is not destroyed on the spot, the soap will remove bacteria and viruses off the surface of the skin.**

