U-STEMist Scheme, session 2018 - 2019

Group 10 D.N.A: Mr Bean





Introduction

Community Partner:

The Y.W.C.A. Hioe Tjo Yoeng College

Mentor:

Professor Lam Hon Ming

Our project theme: Soybeans



01 Evaluation on the achievement of the goals

- 1. To understand the current agricultural situation
- 2. To identify the problems that HK farmers are facing
- ✓ Narrative farm visit tour by U-STEMists
- ✓ Students' responses collected through *EduVenture* (which can show students' understandings)
- 3. To find out solutions that can help the local farmers
- 4. To develop explorative and critical thinking skills
- 5. Able to incorporate STEM into their daily lives
- ✓ Held 3 different workshops which cover different STEM fields
- ✓ Comments collected from end-of-workshops evaluation forms

This program has enriched your knowledge in STEM related subjects. (1 = very disagree, 5 = very agree)



eliverables



Farm Visit to Tai Lung Experiment Station

Date: 1/2/2019

Time: 1400 – 1630



- ✓ Guided tour to no-tilt farm, germination room, greenhouse, organic farm, soybean farm
- ✓ Students' responses collected through *EduVenture* App

Soybean Growing Workshop

Date: 15/2/2019

Time: 1600 – 1730





- ✓ Acquired basic soybean planting knowledge
- ✓ Planted their own soybeans
- ✓ Designed experiments
- ✓ Designed a data log book

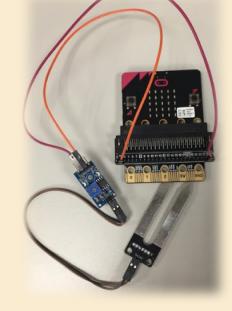


Micro:bit Humidity Sensor & **DIY Greenhouse Workshop**

Date: 15/3/2019 Time: 1600 - 1730











- ✓ Learnt how to draft basic Micro:bit codes
- ✓ Made simple humidity sensor
- Designed greenhouse with given materials





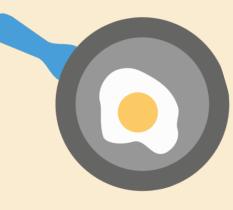


Soymilk and Beancurd Dessert **Making Workshop**

Date: 26/4/2019 Time: 1600 - 1730



- ✓ Learnt about **food sciences** during cooking process
- ✓ Carried out *Biuret Test* to compare the protein content of different soybean products







Team background

> All come from biology field, lack of knowledge and experiences on other STEM fields.

Group planning

> Difficult to gather due to different class schedules.

Time management

Limited workshop hours (overran a lot)

04 Self-reflections

Frankie: Ustemist scheme granted preparing and implementing the STEM project.

Brian: It is a great opportunity for me that I could participate as a part of the U-STEMist program in order to be a well trained teacher.

Joy: U-STEMist scheme provides me with a very the future. good experience of learning how to prepare for STEM workshops and how to teach the secondary students in an innovative manner.

a me Gigi: We encountered lot of obstacles opportunities to gain experience in organizing, throughout the whole program, but i am so satisfied that our project has been implemented successfully.

> Jessie: I learnt a lot through the program and i believe all the skills and experiences acquired would make me a successful science teacher in

