#### Introduction

Title: STEM Workshop for secondary school students Community Partner: Hong Kong True Light College STEM activities based on science curriculum

Enhance students' interest in science through interactive and innovative STEM activities

Expect students' logical and critical thinking skills will be nurtured after STEM activities

## Workshop II

Date: 25/03/2019

IJ STEMIST

True-Lighters

## Center of GRAVITY

Learning Objectives

Understanding

- 1) Relation between C.G. and;
- 2) Characteristics of C.G.



Main Activities

DISSCUSSING theory behind Balancing Bird



Finding center of gravity
by EXPERIMENT

APPLYING the knowledge on Flip Botttle Challenge



## Reflection

As being a science and mathematics teacher, we reckon the importance of cultivating the scientific exploratory spirit of our students that STEM education is not just about learning and teaching but also to apply and discover the knowledge cross different disciplines.



Special thanks to Mr. Tim Chun in True Light College. Thanks for providing us such great learning opportunity

Also thanks to Dennis who gave unlimited support and guidance to us! <3

## Workshop I

Cartesian Diver

## STEM Components

#### Learning Objectives

To learn about the

concept of density

determine an object

(what factors

to sink or float)

across different disciplines

To enable students to

apply the knowledge

Maths Engineering

their own Diving fish, and error

Science concept of density tientific investigation steps:

concept of density
scientific investigation steps:
asking a question, making
hypothesis, doing observation,
tests sand analysis



Workshop III

# Colourless X

Date: 01/04/2019

Objectives:

1. Learn about purification methods(sedimentation, filtration, distillation)

2. Understand that colourless solution may have impurities

Students tried some colourless drinks and guessed what they are



Teammates distillated the brown sugar bubble milk and demonstrated how to produce colourless tea by distillation





