



FASCINATING STEM Workshops

COMMUNITY PARTNERS



Koding Kingdom (HK)
Ltd.



PLK
Cheung Hong Youth
Development Centre

OBJECTIVES

- ▷ To organise low-cost STEM workshops
- ▷ To focus on STEM learning experiences of local students
- ▷ To emphasize maker education
- ▷ To relate to local Science curriculum

OUR PROJECT

'Fascinating STEM Workshops' focuses on electricity. It teaches students electromagnetism, circuits and electrical conductivity of solutions through three workshops: Discovering Electromagnetism, Closed and Open Circuits and Mix Mix Electrolytes respectively. Lots of interesting questions and activities are included to provide unforgettable experience for primary students.

Discovering Electromagnetism

May 11, 2018 (Friday)

Introduced reasons of items floating in the air. Students made their own electromagnets and discover methods to increase electromagnetism

Closed and Open Circuits

May 17, 2018 (Thursday)

Introduced the concept of electric current, electric conductor, insulator, and closed and open circuits. Students created their own models during the workshop.

Mixing Electrolytes

May 30, 2018 (Wednesday)

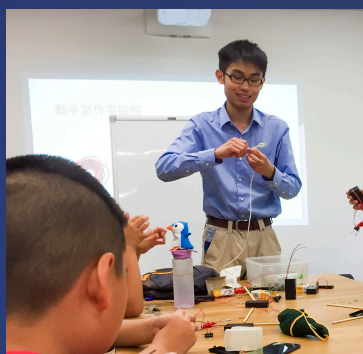
Introduced the concept of electrolytes and organised hands-on activities for students to build a closed circuit with electrolytes available in daily life.

OUR REFLECTION



The project was a good opportunity for us and the participants of the workshops to understand more about STEM and STEM education.

We integrated and applied the knowledge and skills, which are learnt from the activities of the U-STEMist Scheme.



The participants in the workshops learned different science concepts in an innovative and creative way. Some hands-on activities were provided to them. Students collaborated and interacted with others during the workshops, which achieved some important aims of STEM education

RECOMMENDATION

- ▷ Most participants are primary students, the level of difficulty should be reduced and more interesting elements should be added
- ▷ Teachers should set up lesson rules at the beginning of the workshop to avoid any chaos
- ▷ Colourful electrolytes should be used so that students can observe colour changes of different aqueous solutions.

CONCLUSION

Involving STEM elements in teaching can increase students' learning motivation. The design of STEM activities should be student-oriented and achieve the goal 'letting students learn happily'.

