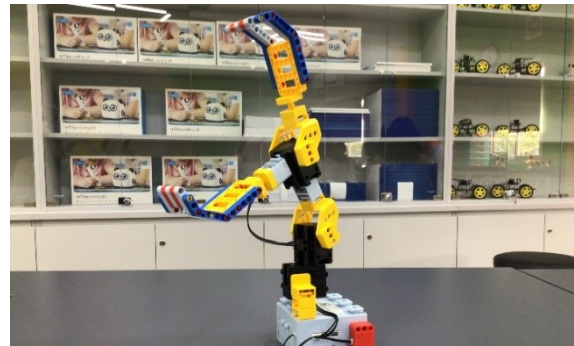**SIS @ VUNG TAU**   **DECEMBER 2020**
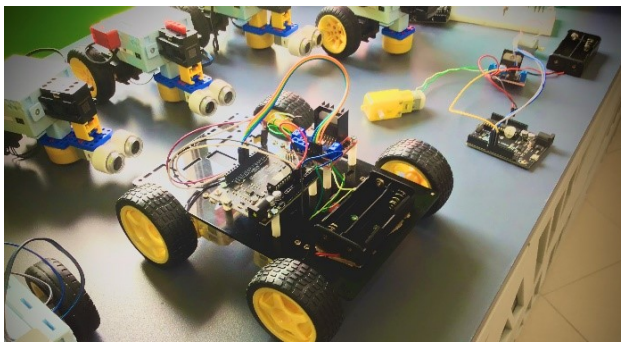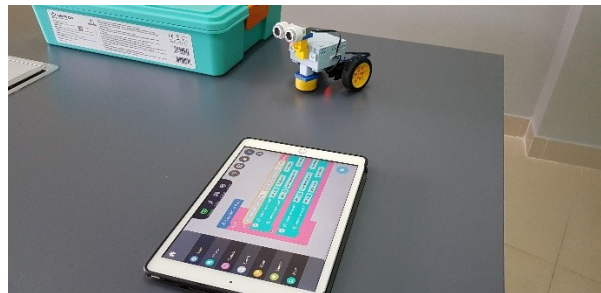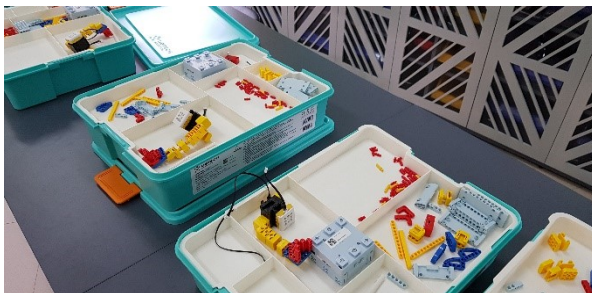
Robotics for Beginners

In semester 1 we have been exploring robotics for beginners. The Ubtech advanced kits allow students to experience programming and controlling robots to do various tasks. Although these robots may be simple in comparison with typical industrial robots, the principles behind how they work and how they are programmed is very much the same.

The introduction of these skills and knowledge is important in building technological literacy. The technological landscape will inevitably change dramatically over the next few decades as has been the case over the previous few decades. This means that technological literacy is fundamentally important in order for students to be able to understand many of the changes that they will face in their chosen careers.

SINGAPORE INTERNATIONAL SCHOOL @ VUNG TAU
Address: Khu dân cư Đại An, Phường 9, Thành phố Vũng Tàu, Tỉnh Bà Rịa – Vũng Tàu
Tel: + 84 254 7301 777   www.vungtau.sis.edu.vn

Fun Learning in STEM!

Our youngest students in kindergarten have been learning through play with play dough challenges, building challenges and have loved developing their hand-eye coordination. We've investigated materials that float and sink, cut out moving cards. They have built garden scenes and road scenes with Mtiny and controlled the robot using the controller.
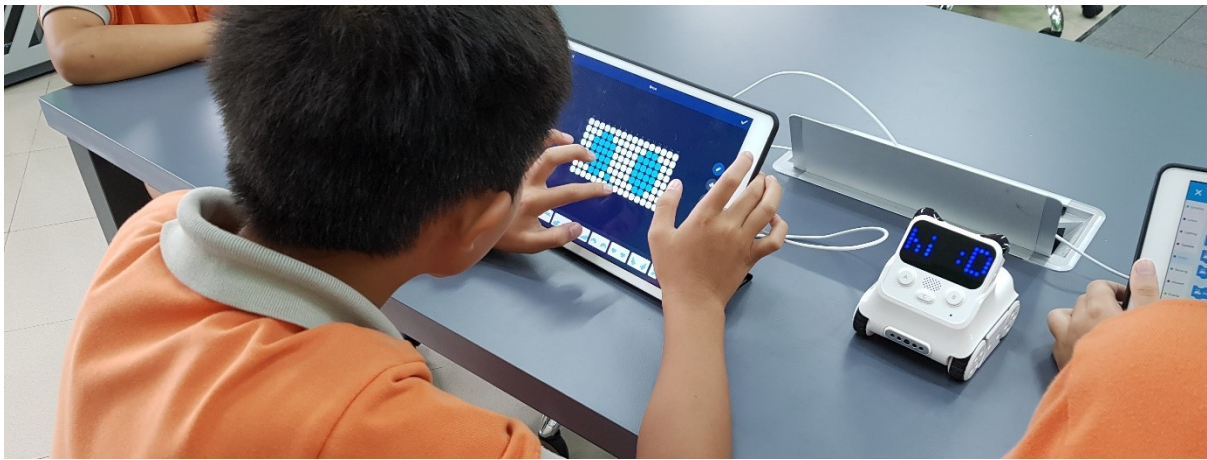

Years 1and 2 have also been learning with the Mtiny robot. They have described stories using the panda and cat characters, moving the robots using the coding tiles. Students have also read stories from the CREST awards leading to experiments and data collection. At Halloween, we enjoyed some paper engineering making spooky 3D shapes and for teacher's day we made moving greetings cards. We designed and made small boats, finding the best shapes.
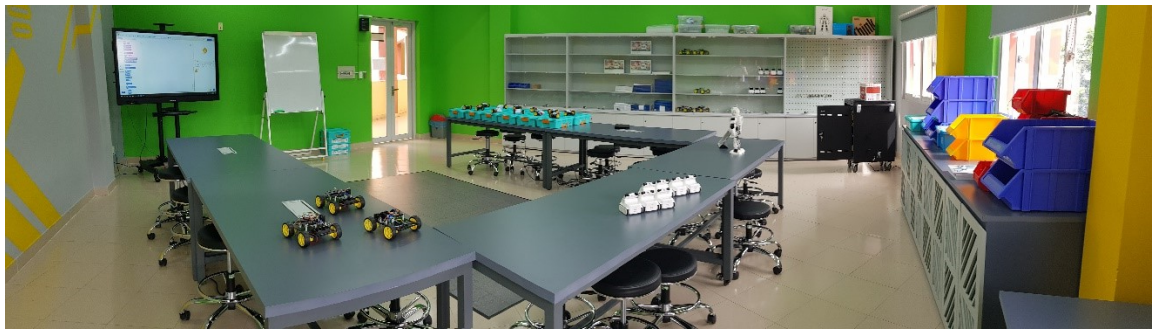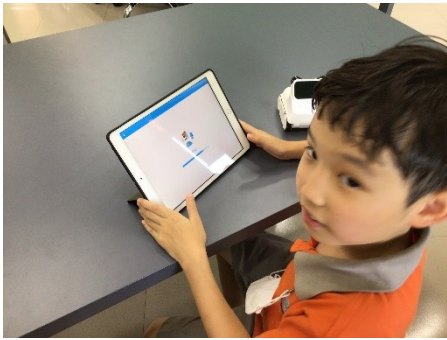
SINGAPORE INTERNATIONAL SCHOOL @ VUNG TAU
Address: Khu dân cư Đại An, Phường 9, Thành phố Vũng Tàu, Tỉnh Bà Rịa – Vũng Tàu
Tel: + 84 254 7301 777   www.vungtau.sis.edu.vn

STEM Explorations and Investigations in Primary

This semester, students in Years 3 to 5 have been learning about the Design Cycle, conducting CREST Awards investigations and working with robotics and basic coding skills. For the STEM CREST Awards students have learnt about the use of technology in Forensics Science and Food Technology.

Students had many positive outcomes utilizing their STEM Skills and continue working with MakeBlock's Codey Rocky platform and using the iPads to code their robots. They have learnt about basic parts of a robot including sensors, servo motors and electronics that make the robot work and respond to their environment.

SINGAPORE INTERNATIONAL SCHOOL @ VUNG TAU
Address: Khu dân cư Đại An, Phường 9, Thành phố Vũng Tàu, Tỉnh Bà Rịa – Vũng Tàu
Tel: + 84 254 7301 777   www.vungtau.sis.edu.vn

https://sway.office.com/JaITgWRmfbHmpjAU?ref=Link&loc=play

SINGAPORE INTERNATIONAL SCHOOL @ VUNG TAU
Address: Khu dân cư Đại An, Phường 9, Thành phố Vũng Tàu, Tỉnh Bà Rịa – Vũng Tàu
Tel: + 84 254 7301 777   www.vungtau.sis.edu.vn