



ST. LOUIS SCHOOL
Circular No. 08 (17-18)

1st September, 2017

Dear Parents/Guardians of S1-S3 students,

Re: mBot purchasing

STEM is an acronym for science, technology, engineering, and mathematics, which is posted as a key emphasis in the school curriculum in Hong Kong. It aims at nurturing students' creativity, collaboration and problem solving skills, as well as fostering their innovation and entrepreneurial spirit as required in the 21st century. mBot is an all-in-one solution for kids to enjoy the hands-on experience about programming, electronics, and robotics, which are the core of STEM education. Through the projects making use of mBot, students could:

- build problem solving skills;
- discover how things work;
- learn maths and science concepts in the engagement of real-world engineering problems.

Getting in line with the initiative, technology education in St. Louis has been greatly reformed. mBot will be used across **TWO** academic years for both S1 & S2 students in computer and science lessons. For S3 students, mBot will be used extensively in computer lessons (robotics programming, mobile app making and STEM projects).

To lower the financial burden of parents, school will coordinate for a bulk purchase. The price of the mBot (version 1.1, Bluetooth) is \$620 (List price is \$728). **The fee has to be settled through electronic payment.** Students with financial difficulties may seek school subsidy upon written request. For enquiries, please contact Mr. Fong Shun Man Simon (general), Mr Kwok Sheung Yin Dominic or Mr Wong Chun Yuen (financial assistance) at 25460117. For those who have purchased the mBot (v1.0 or v1.1, Bluetooth), parents may choose to opt out from the purchase. Please refer to the appendix for the specifications of the mBot.

Thank you for your attention.

Yu Lap Fun Peter
Principal

Appendix

Specifications of mBot

mBot v 1.1 - Blue (Bluetooth Version)



Specifications

Software and programming	mBlock(graphical) Mac, Windows, iPad mBlocky Arduino IDE
Inputs	Light Sensor, Button, IR Receiver, Me Ultrasonic Sensor, Me Line-follower Sensor
Outputs	Buzzer, RGB LED, IR Transmitter, two motor ,ports
Microcontroller	Based on Arduino Uno
Power	3.7V Lithium battery(charger on board) or four 1.5V AA batteries (not included)
Wireless Communication	Bluetooth(Bluetooth Version) 2.4GHz wireless serial(2.4G Version)
Dimensions	17 x 13 x 9 cm assembled
Weight	1034g assembled

