



Integrated Science

科學科

Integrated Science puts great emphasis on training junior form students the experimental skills, enabling them to build a solid foundation in experimental operation for promoting to senior form. In this respect, experiments are arranged to the greater extent for students to conduct operations and explorations, and students are required to attend the experiment examinations in each term, for accessing their proficiency in experimental skills.

Our school encourages STEAM education in the form of activities, so as to develop students' creativity and problem-solving skills by receiving thinking skills training and experience in the activities. A number of group project activities have been incorporated in the curriculum, including Micro:bit counter, attention training device, Mexican mint anti-itch cream, natural acid-base indicator, scientific investigation poster design, hot air balloon, water rocket, and so on. Students could learn and apply the relevant scientific knowledge through the process of hands-on production, thinking of effective ways for improvement and putting into practice, as well as to make some useful household items.

科學科重視初中學生的實驗技能訓練，好讓他們升上高中時對實驗操作打好根基。因此，課程盡量安排實驗讓學生進行操作和探究，並在每學期的考試安排實驗操作考試，目的測試同學對實驗技巧的掌握。

本校鼓勵推行 STEAM 以活動的形式，讓學生透過活動獲得思考訓練及體驗，從而提升創意及解難的能力。在課程加入了多項小組專題活動，包括 Micro:bit 計數裝置，專注力訓練器，左手香止痕膏，天然酸鹼指示劑，科學探究海報設計，熱氣球和水火箭等。通過親身動手製作，思考改良的方法並付諸實行，從中學習及運用相關的科學知識，製作一些有用的生活物品。



Using heat to observe chemical changes
利用加熱，觀察化學變化



Picking Mexican mint
採摘左手香



Making Mexican mint anti-itch cream
製造左手香止痕膏



Finished product of Mexican mint anti-itch mosquito cream
左手香止痕膏的製成品



Home-made natural acid-base indicator
自製天然酸鹼指示劑



Water rocket ready to launch
水火箭準備發射



Micro:bit counter
Microbit 計數裝置



Egg protector
雞蛋保護器



Making of attention training device
專注力訓練器設計的製作