Life-wide Learning: Technology Education

Curriculum Aims

The TE KLA curriculum aims to develop technological literacy in students through the cultivation of technological capability, technological understanding and technological awareness. Technology education provides students with the opportunities to acquire the essential knowledge and concepts, learn the process and skills, and be aware of the impact of technologies in improving everyday living, enhancing social and economic development, and keeps Hong Kong students abreast of the technological advancement.

Learning and Teaching

Technology learning experiences should:

- be purposeful;
- be progressive and interactive in nature: allowing students to progress at their own pace and to make improvement;
- involve the co-ordination of the hands and minds;
- integrate the different knowledge contexts in the TE curriculum;
- nurture in students the basic knowledge, skills and attitudes for lifelong learning;
- enable the pursuit of excellence in specialised fields for those with interest and/or talent in technology; and
- infuse MRE of the ongoing renewal of the curriculum such as promoting STEM education

Life-wide Learning

TE learning should not be confined to schools. Life-wide learning aims to offer opportunities for students to learn:

- in real contexts,
- by doing; and
- through interactions with people from different sectors.

Schools can make arrangements for their students to visit or be attached to different organisations to understand the application of technologies in daily life and to gain experiences by doing. Alternatively, professionals and experts from different fields can be invited to give talks and conduct activities in schools. Arrangements can also be made for students 136 to visit these experts in their workplaces so as to have a wider exposure in different fields related to technology.

Examples of LWL

There are many possible life-wide learning activities to support the TE curriculum. The following table provides information on some of the LWL activities which are adopted by different schools.

Life-wide Learning Activity	Objectives
Visits to different organisations (e.g. power plants, switch stations, control stations, model homes, model offices, research laboratories)	To expose students to different specialised areas to understand how technologies are actually applied to solve real life problems
Talks, seminars and public lectures by practitioners or professionals	For students to gain up-to-date and contextual knowledge and experience related to different technologies and to communicate directly with professionals
Participation in competitions	For students to apply knowledge and skills acquired and to learn through team work and collaboration
Career-related experiences	For students to gain knowledge and work experiences and to acquire skills in working with others
Mentorship programmes by professionals	For students to have a better understanding of a certain knowledge area in the TE curriculum, to work under the guidance of professionals and to be aware of the qualities that employers are looking for in school graduates

Technology Education through Life-wide Learning - The Hong Kong Olympiad in Informatics (HKOI) and International Olympiad in Informatics (IOI)

The HKOI is a student computer competition which aims at promoting students' interest in programming. The best contestants will be invited to attend a series of training programmes. Those with outstanding performance in the training programme will then be selected as representatives of the Hong Kong team in some international computer competitions, such as the International Olympiad in Informatics and the National Olympiad in Informatics in China.

The IOI is an annual international computer competition which aims at stimulating students' interest in computing science and information technology, and encouraging students' sharing of their technological and cultural experiences with talented pupils from the various participating countries.

LWL activities can be organised according to the specific condition of schools. The following are some LWL activities conducted in schools:

- learning outside school hours
- additional and follow-up work (e.g. out-of-school activities)
- technology week (e.g. exhibition of students' design work and portfolio)
- technology club
- workplace experiences (e.g. visits to technology sites and attachments)
- integrated learning with other KLAs (e.g. the study of technological artefacts in different time periods in other cities)
- internal and external competitions

Source from Technology Education Key Learning Area Curriculum Guide (Primary 1 - Secondary 6) (CDC 2017)