

# **Printed Textbook Writing Guidelines for the Technology Education Key Learning Area Curriculum (Secondary 1-3) – Information and Communication Technology (Knowledge Context)**

## **1. Introduction**

- 1.1 The purpose of this set of guidelines is to familiarise interested textbook publishers with the curriculum aims and objectives, structures and learning topics, related principles for writing textbooks, etc of the Technology Education Key Learning Area (TEKLA) curriculum (S1-3) – Information and Communication Technology (ICT) (Knowledge Context) in a bid to ensure that the textbooks are written in accordance with the specific requirements of the curriculum and the updated “Seven Learning Goals of Secondary Education” ([www.edb.gov.hk/en/curriculum-development/7-learning-goals/secondary/index.html](http://www.edb.gov.hk/en/curriculum-development/7-learning-goals/secondary/index.html)). For details, please refer to the *Secondary Education Curriculum Guide* (2017) and its Supplementary Notes (2021) ([www.edb.gov.hk/en/curriculum-development/major-level-of-edu/secondary/CG\\_documents.html](http://www.edb.gov.hk/en/curriculum-development/major-level-of-edu/secondary/CG_documents.html)).
- 1.2 The *Values Education Curriculum Framework (Pilot Version)* was released in 2021 and ten priority values and attitudes (PVA) were introduced. The PVA have been optimised since 2023 with the PVA “Care for Others” extended to “benevolence” and two PVA (i.e. “Filial Piety” and “Unity”) added. Publishers should incorporate the learning elements of values education in the textbooks where appropriate. For details, please refer to the *Values Education Curriculum Framework (Pilot Version)* (2021) (Chinese version only) ([www.edb.gov.hk/en/curriculum-development/4-key-tasks/moral-civic/ve-curriculum-framework2021.html](http://www.edb.gov.hk/en/curriculum-development/4-key-tasks/moral-civic/ve-curriculum-framework2021.html)) and the EDBCM No.183/2023 on *Enriching the Values Education Curriculum Framework (Pilot Version) – Optimisation of “Priority Values and Attitudes”* ([applications.edb.gov.hk/circular/upload/EDBCM/EDBCM23183E.pdf](http://applications.edb.gov.hk/circular/upload/EDBCM/EDBCM23183E.pdf)).
- 1.3 The *Curriculum Framework of National Security Education in Hong Kong* was released in 2021. Publishers should incorporate the learning elements of national security education in the textbooks where appropriate. They may also refer to the government website “National Security Education Day” for information such as major fields of national security. For details, please refer to the *Curriculum Framework of National Security Education in Hong Kong* ([www.edb.gov.hk/en/curriculum-development/kla/pshe/national-security-education/index.html](http://www.edb.gov.hk/en/curriculum-development/kla/pshe/national-security-education/index.html)) and the government website “National Security Education Day” ([www.nsed.gov.hk/index.php?l=en](http://www.nsed.gov.hk/index.php?l=en)).
- 1.4 For the general principles and requirements for writing textbooks and the requirements for submission of printed textbooks for review, publishers should refer to the latest edition of the *Guiding Principles for Quality*

*Textbooks and Guidelines on Submission of Printed Textbooks for Review* available on the EDB's Textbook Information website ([www.edb.gov.hk/textbook](http://www.edb.gov.hk/textbook)).

1.5 The textbooks should be written in line with the following CDC curriculum documents:

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

## **2. Curriculum Aims and Objectives**

### **2.1 Curriculum aims**

Technology Education (TE) aims to develop the technological literacy in students through the cultivation of technological capability, technological understanding and technological awareness.

2.2 Learning objectives of the TEKLA curriculum (S1-3) - ICT (Knowledge Context) are:

- Choose the appropriate hardware and software to perform specific tasks
- Be aware of the approaches used in solving problems
- Develop skills to solve problems systematically
- Know how to develop simple programmes to solve problems
- Understand basic concepts related to the use of information technology and the computer
- Develop the capability to process and present information independently or collaboratively with peers
- Be aware of the validity and reliability of information, and be able to verify and evaluate the accuracy and reliability of information
- Develop skills to perform a variety of Internet activities

## **3. Guiding Principles**

### **3.1 Content**

- The *Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 3)* was published in 2002 and has been implemented in schools since then. It has been reviewed and the learning elements at junior secondary level were enriched in 2017 for schools' reference. For details, please visit the Education Bureau website at <http://edb.gov.hk/en/curriculum-development/kla/technology-edu/curriculum-doc/index.html>.

- The TEKLA curriculum comprises six knowledge contexts. Selection of materials should be done with a view to attaining the aims and objectives stated in the TEKLA curriculum and covering the contents under the Information and Communication Technology knowledge context; the learning elements under the six knowledge contexts could be connected or integrated to enhance students' learning. Information/data included should be accurate, systematic and relevant.
- In order to arouse students' interest in learning the subject and to facilitate effective learning, the learning and teaching materials should, as far as possible, be linked to real life situation in local and/or global contexts, technological applications, social issues, and students' daily experiences so as to help students in realising the importance and relevance of the concepts being discussed. Furthermore, local examples should be cited wherever appropriate.
- Bias and discrimination should be avoided in the selection of contents, examples, illustrations, activities, etc. Furthermore, information should be provided to help students in understanding and analysing an issue from different perspectives.
- All core learning element modules (K1 Computer Systems, K2 Programming Concepts, and K16 Information Processing and Presentation) and extension learning element module (E1 Computer Networks) of ICT (Knowledge Context) should be covered.

### 3.2 Learning and Teaching

- The curriculum emphasises on learning through real-life situation, such authentic learning experiences facilitate the study of technological applications and to develop students' generic skills such as problem solving skills, effective communication skills, creativity, etc.
- Practical works and learning activities should be included to facilitate the development of fundamental computer concepts, application of Information Technology and ideas of programming.
- Practical works such as project should offer "hands-on" experience and opportunities for the application of knowledge and skills. Projects should provide challenging questions or problems for students to explore local and global issues on latest developments in technology and their applications. They should also allow students to construct and connect knowledge, skills, proper values and attitudes through an in-depth study on a topic of interest.
- Learning activities such as discussion, role-play, debate, investigation, survey, library search, Internet search, etc., should be included as appropriate.

- Learning activities and exercises should be designed to develop various skills including higher order thinking skills such as application and creative thinking which are vital elements for students in solving problems logically and making sense of the environment. Student-centred and interactive approaches are highly recommended, as they are useful in providing suitable learning experience for stimulating and developing higher level thinking. The skills to be developed in particular activity should preferably be identified for teachers' reference.
- Exercises should help students learn to locate and process important information from the text. They should help students focus on important learning objectives and check their own progress. Stimulus materials in the form of newspaper cuttings, extracts from articles, flow-charts, photos, diagrams, statistical tables or graphs, Internet web sites, etc., should be provided so that students can have some concrete materials to base on.

### 3.3 Structure and Organisation

- The organisation of curriculum should facilitate teachers to have a better grasp on the coverage of learning elements in order to provide a broad and balanced TE curriculum for students.
- The learning and teaching materials should be arranged in an appropriate sequence, e.g. from easy to difficult, from concrete to abstract.
- The clarity of concept explanation is an important aspect affecting students' learning. New concepts should be introduced at an appropriate pace and when needed during the development of the text. Efforts should be made to help students connect new concepts with concepts already learned.
- Structure of text should be clear to students as evidenced by chapter titles, headings, outlines, introductions and conclusions.
- The text should be coherent at a local level. Pronouns should have a clear referent and the relationship between ideas should be explicit and obvious.

### 3.4 Language

- Publishers should refer to the Computer Education Glossary available from the Education Bureau website ([https://www.edb.gov.hk/attachment/tc/curriculum-development/kla/technology-edu/resources/computer-edu/ICT\\_glossary.pdf](https://www.edb.gov.hk/attachment/tc/curriculum-development/kla/technology-edu/resources/computer-edu/ICT_glossary.pdf)).

- The language used should be clear, fluent, accurate and easy to understand.
- Pinyin should be adopted for Chinese names and places.
- The interspersing of languages (e.g. English followed by its Chinese translation or vice versa) in the text is undesirable.

### 3.5 Textbook Layout

- Publishers may refer to the latest edition of EDB's [\*Guiding Principles for Printing of Textbooks\*](#) for use of paper, colouring, use of inks, etc.

## 4. Others

- 4.1 When writing textbooks, publishers have to ensure that the content and information provided in the materials should be correct, complete, up-to-date, objective and impartial. The source and the date of the information should be provided as appropriate. The information in the illustrations and images should avoid showing the brand names of commercial items unless they are necessary.
- 4.2 Except for the single URL of the publisher's website, no other URLs or QR codes should be included in the printed textbooks. Publishers are required to clearly declare in the "Preface" or "Editor's Notes" that the learning and teaching resources on the publisher's website have not been reviewed by the EDB.
- 4.3 Publishers may provide self-developed supplementary learning materials or web links to the learning and teaching resources developed by the third party on the publishers' websites. Publishers may also provide their websites' URLs in the Teacher's Book for teachers' reference to facilitate lesson preparation or design of learning and teaching activities. Publishers should be accountable for the learning and teaching resources they provide.
- 4.4 The maps included in the textbooks should be accurate and only contain essential information suitable for student learning. Reference should be made to the requirements and standard maps of the Ministry of Natural Resources of the People's Republic of China for all maps of China included in the textbooks, and wherever appropriate, the respective map review numbers and dates of reference should be quoted. Textbook publishers should also follow strictly the instructions in “公開地圖內容表示規範” issued by the Ministry of Natural Resources ([https://www.gov.cn/zhengce/zhengceku/2023-02/17/content\\_5741977.htm](https://www.gov.cn/zhengce/zhengceku/2023-02/17/content_5741977.htm)).
- 4.5 When using images of the national flag, national emblem, regional flag and regional emblem, the following points should be noted:

- **avoid drawing** the national flag, national emblem, regional flag and regional emblem on your own;
  - use real photos to show the national flag, national emblem, regional flag, regional emblem, etc.;
  - use the files of the national flag, national emblem, regional flag and regional emblem downloaded from the Protocol Division Government Secretariat and follow the relevant requirements stipulated by the Protocol Division Government Secretariat on the use of these images.
- 4.6 It is mandatory for the publishers to ensure that all proof-reading work, including that for language, punctuation, information, illustration, pagination, etc., is completed and the textbooks are error-free before submitting them for review.
- 4.7 Publishers should review the textbook content from time to time. When necessary, publishers can make amendments to the printed textbook content in the form of corrigenda with the EDB's consent. The EDB may also require publishers to make amendments when needs arise.
- 4.8 Publishers should clear all copyright issues of the textbooks as appropriate.
- 4.9 Expiration of the copyright on the textbook materials is not accepted as a reason for publishers to apply for textbook revision or "Reprint with Minor Amendments".
- 4.10 The suggested time allocation set out in the curriculum documents should be taken into consideration to ensure that the learning content is designed with an appropriate quantity and level.
- 4.11 If publishers submit other versions (such as Chinese version or electronic version) of the same textbook title for review at the same time, they should duly check the consistency of the content among all the versions. If another version is to be submitted at a later stage, the suggestions in the Textbook Review Report for the previously submitted version should be duly followed before submission.

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