Briefing Session on the New Support Measures under the Fourth Strategy on IT in Education (ITE4)

School-based Implementation of the Information Literacy Framework for Hong Kong Students

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The Emergence of Information Literacy (IL)

The 21st century learners need:

- **Requisite knowledge** of information processing
- **Proper attitudes** toward the use of IT
IL: Capacity Building

The process that develops:

- the ability to gather, synthesize, analyze, interpret, and evaluate information
- the ability to work independently and socially
- the ability to participate in, benefit from and contribute to the knowledge society and the wider global community
School-based Implementation of IL Framework

- School culture for fostering IL
- IL across all subjects
- IT for computational thinking development and e-Learning support
Three Elements for School-based Implementation of IL Framework

**IT for Computational Thinking Development and E-Learning Support:**
- IT: Programming Education for Computational Thinking Development
- IT: Elements which involve the application of IT as a productivity tool, a communication tool, a collaboration tool, a research tool and a decision-making tool for developing computational thinking skills

**IL across All Subjects:**
- Opportunities for students to apply IL for learning tasks across all subjects under the 8 Key Learning Areas (KLAs)

**School Culture for Fostering IL:**
- In-school and extra-curricular service learning activities that involve the use of IT to cultivate students’ positive attitudes towards the use of technological artefacts and the desirable attributes of citizenship that are beneficial to society
Three IL Implementation Models

- Component a. IT/ Library lesson coordinating model
- Component b. Curriculum infusion
- Component c. Use PBL to foster IL

**Model 1**
- a. IT/ Library lesson coordinating model
- b. Curriculum infusion

**Model 2**
- a. IT/ Library lesson coordinating model
- c. Use PBL to foster IL

**Model 3**
- b. Curriculum infusion
- c. Use PBL to foster IL
Roles of All Subjects for IL Development: 
Linking IL with 8 Key Learning Areas (KLAs)

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<tr>
<th>Chinese Language Education KLA:</th>
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<tr>
<td>Chinese Language, Chinese Literature, Putonghua</td>
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<td>[Secondary] Computer Literacy, Design and Technology, Home Economics, Technology and Living, etc.</td>
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IL Framework for Hong Kong Students: 8 Literacy Areas

Effective and Ethical use of information for lifelong learning

- Literacy Area 1: Use, provide and communicate information ethically and responsibly

Generic IL

- Literacy Area 2: Identify and define a need for information
- Literacy Area 3: Locate and access relevant information
- Literacy Area 4: Evaluate information and information providers, in terms of authority, credibility and current purpose
- Literacy Area 5: Extract and organise information and create new ideas

Information World

- Literacy Area 6: Be able to apply IT skills in order to process information and produce user-generated content
- Literacy Area 7: Recognise the roles and functions of information providers (e.g. libraries, museums, internet) in the society
- Literacy Area 8: Recognise the conditions under which reliable information could be obtained
Subject-specific Integration of IL Framework: From Information Processing Perspectives

Personal, Social & Humanities Education KLA:
[Primary] General Studies
[Secondary] Integrated Humanities, Liberal Studies, Civic Education, History, Geography, Economics, etc.

Chinese Language Education KLA:
Chinese Language, Chinese Literature, Putonghua

English Language Education KLA:
English Language, English Literature

- Literacy Area 1: Use, provide and communicate information ethically and responsibly
- Literacy Area 2: Identify and define a need for information
- Literacy Area 3: Locate and access relevant information
- Literacy Area 4: Evaluate information and information providers, in terms of authority, credibility and current purpose
- Literacy Area 5: Extract and organise information and create new ideas
Subject-specific Integration of IL Framework: From Creative and User-generated Content Perspectives

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- Literacy Area 6: Be able to apply IT skills in order to process information and produce user-generated content
- Literacy Area 7: Recognise the roles and functions of information providers (e.g. libraries, museums, internet) in the society
- Literacy Area 8: Recognise the conditions under which reliable information could be obtained
Promoting IL through E-Learning in School (1): Schools with E-Learning Integration in Holistic Curriculum

For schools which implement e-Learning across the holistic school curriculum

- Elements of IL framework of all the 8 Literacy Areas should be integrated with e-Learning activities across 8 KLAs

- Three IL Implementation Models
  - Component a. IT/Library lesson coordinating model
  - Component b. Curriculum infusion
  - Component c. Use PBL to foster IL
Promoting IL through E-Learning in School (2): Schools with E-Learning Integration in Selected Subjects

For schools which implement e-Learning in selected topics of selected subjects

- The integration of IL framework can be started with Literacy Area 1 to Literacy Area 5 in e-Learning activities in the selected topics of selected subjects
  - Literacy Area 1 - Effective and Ethical use of information for lifelong learning
  - Literacy Area 2 to Literacy Area 5 - Generic IL

- Example - In the subject-specific e-Learning activities with information search on the Internet, students can be provided with the opportunities to:
  - compare the information from different websites critically
  - identify and comment on the information providers
  - decide and explain which websites are reliable
### Types of Parental Support for E-Learning Implementation

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<td>1) ICT-supported learning environment at home</td>
<td>Acquisition of hardware and learning resources: purchasing of hardware such as computers, tablets, printers and writing pads; learning resources such as e-books and online supplementary exercises</td>
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<td>2) Operational support at home</td>
<td>Sources selection and validation, printing, Chinese word typing, basic operation such as copy and paste, bookmarking websites and finding key words</td>
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<tr>
<td>3) E-Learning policy at home</td>
<td>Time arrangement, time limitation, location of using digital devices (e.g., living room) for open access, not using tablet at home</td>
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<td>4) Fundraising for school</td>
<td>Support for school to buy new equipment such as computers, tablets, e-Learning materials and online exercises</td>
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## Types of Parental Concerns about E-Learning Implementation

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<td>1) Excessive use of ICT</td>
<td>Deteriorating interpersonal and handwriting skills due to overreliance on digital devices; abusing digital devices for non-educational purposes resulting in addiction</td>
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<tr>
<td>2) Physical well-being</td>
<td>Damaging eyesight and vertebral health due to prolonged contact with digital devices or inappropriate posture</td>
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<td>3) Exposure to unsuitable content</td>
<td>Exposure to unsuitable content such as violence and pornography online and contact with inaccurate and incomplete information</td>
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<td>4) Negligence of school tasks</td>
<td>Spending excessive time on digital devices for doing assignments and learning</td>
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<td>5) Plagiarism of homework</td>
<td>Copying directly from information online to finish assignments; increasing the probability of cheating via digital devices</td>
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<td>6) Disadvantaged home e-Learning environment</td>
<td>Making children less competitive due to the lack of financial support to sustain e-Learning</td>
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Partnership between School and Parents for Promoting E-Learning among Students

1. Provision of an e-Learning environment and formulating proactive e-Learning policy at home
2. Provision of an e-Learning environment and formulating holistic school policy to address parental concerns
3. Communication for solicitation of parental support and peer support among parents
Critical Issue 1 for School-Parents Partnership for Promoting IL

- Parents should take the responsibility of both monitoring and supporting their children’s use of ICT at home.

- Parents are recommended to set up proactive home policies in order to carry out their leading roles in three directions to encourage active, constructive and interactive learning:
  - monitoring daily personal activities
  - supporting ICT usage for learning
  - setting reasonable expectations
Critical Issue 2 for School-Parents Partnership for Promoting IL

- Schools should set up policies in a holistic manner to address parental concerns.

- Schools need to set up a comprehensive policy to cover up resource needed for such as:
  - physical settings concern at home for e-Learning
  - preventive measures to resolve negative concerns
  - proactive initiatives for positive development of e-Learning capability and attitude
Critical Issue 3 for School-Parents Partnership for Promoting IL

- A desirable partnership between school and parents is collaboration with interactive communication and peer support among parents.
  - **Parents** should be able to understand e-Learning and the holistic e-Learning policy of the schools and to channel their concerns to schools.
  - **Schools** should foster parental understanding of e-Learning and to communicate with parents about the school holistic e-Learning policy to address their concerns.
Main Concerns for Fostering School-Parents Partnership for Promoting IL

Role of parents:
- To lead proactive e-Learning policy at home to monitor, support and inspire e-Learning

Role of schools:
- To formulate holistic policy to address concerns of parents responsively and proactively to gain support

Importance of interaction:
- School-parents communication
- Peer support among parents
Conclusion

- IL competence is important for students in the 21st century

- Students need to develop this competence through a seamless transition between the school and the home

- **School should collaborate with parents to foster the IL competence of students beyond class time**
  - Providing an IT-supported learning environment for more continuous, explorative, and creative learning activities
  - Exerting a **reciprocal influence** on the moral, social, and educational development of students
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Thank You!

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