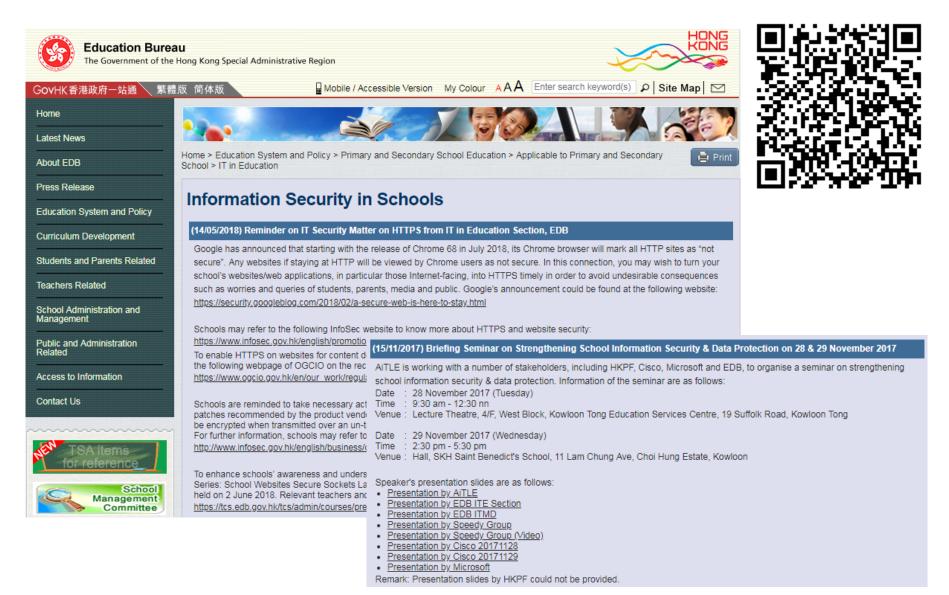
## Promotion and Support on Information Security in Schools by EDB

Mr PW YAN IT in Education Section Education Bureau 2 June 2018

### Promotion and Support on Information Security in Schools by EDB

- Information Security in Schools webpage
- Email Message on IT Security Alert
- Information Security in Schools Recommended Practice
- Co-organise with professional bodies to provide IT security related seminars
- Promote IT security related events / activities
   through school circular memorandum
- Information Literacy for Hong Kong Students
- Grants

## Information Security in Schools webpage



http://www.edb.gov.hk/en/edu-system/primary-secondary/applicable-to-primary-secondary/it-in-edu/information-security.html

## **Email Message on IT Security Alert**

Reminder on IT Security Matter on HTTPS from IT in Education Section, EDB Wai Mei LAU To: &EDB

Monday, May 14, 2018 02:01PM Show Details

Dear Principal and Teachers,

Please be informed that Google has announced that starting with the release of Chrome 68 in July 2018, its Chrome browser will mark all HTTP sites as "not secure". Any websites if staying at HTTP will be viewed by Chrome users as not secure. In this connection, you may wish to turn your school's websites/web applications, in particular those Internet-facing, into HTTPS timely in order to avoid undesirable consequences such as worries and queries of students, parents, media and public. Google's announcement could be found at the following website: <a href="https://security.googleblog.com/2018/02/a-secure-web-is-here-to-stay.html">https://security.googleblog.com/2018/02/a-secure-web-is-here-to-stay.html</a>

2. Schools may refer to the following document prepared by the Office of the Government Chief Information Officer (OGCIO) to know more about HTTPS and website security:

https://www.infosec.gov.hk/english/promotion/files/leaflet-https\_en.pdf

To enable HTTPS on websites for content delivery, schools need to acquire digital certificates for servers. Reference could be made to the following website of OGCIO on the recognised certification authorities in Hong Kong: <a href="https://www.ogcio.gov.hk/en/our">https://www.ogcio.gov.hk/en/our</a> work/regulation/eto/ordinance/ca\_in\_hk/

3. We would like to take this opportunity to remind schools to take necessary actions to protect their information systems/websites, such as applying the latest security patches recommended by the product vendors, all classified information shall be encrypted while in storage, classified information shall be encrypted when transmitted over an un-trusted communication network (e.g. Internet), implement appropriate access controls, etc. For further information, schools may refer to OGCIO's InfoSec website at the following link:

http://www.infosec.gov.hk/english/business/other\_sywa.html

4. Please inform the relevant system administrators / IT support of your school to follow up as appropriate.

5. To enhance schools' awareness and understanding on information and cyber security issues, a seminar "IT in Education e-Safety Series: School Websites Secure Sockets Layer (SSL) Protection, Security Risk and Cyber Security Seminar (El0020180236)" will be held on 2 June 2018. Relevant teachers and technical support staff are encouraged to enroll at: https://tcs.edb.gov.hk/tcs/admin/courses/previewCourse/forPortal.htm?courseId=El0020180236&lang=en

6. For enquiries about this email, please contact the technical advisory team of Information Technology in Education Section at 3698 3594 / 3698 3577 / 3698 3566.

IT in Education Section Education Bureau

### Information Security in Schools – Recommended Practice

• Updated version is now under preparation and expected to be issued in 2018/19 school year.

Information Security in Schools Recommended Practice	學校資訊保安 建議措施
Education Bureau The Government of the HKSAR Revised in Aug 2016	<b>教育局</b> 香港特別行政區政府 二零一六年八月修訂
Aug 2016 1	二零一六年八月



### Information Security in Schools – Recommended Practice

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Parts to be updated highlighted in yellow ÷

### Co-organise with professional bodies to provide IT security related seminars

#### (15/11/2017) Briefing Seminar on Strengthening School Information Security & Data Protection on 28 & 29 November 2017

AiTLE is working with a number of stakeholders, including HKPF, Cisco, Microsoft and EDB, to organise a seminar on strengthening school information security & data protection. Information of the seminar are as follows:

Date : 28 November 2017 (Tuesday)

- Time : 9:30 am 12:30 nn
- Venue : Lecture Theatre, 4/F, West Block, Kowloon Tong Education Services Centre, 19 Suffolk Road, Kowloon Tong

Date : 29 November 2017 (Wednesday)

Time : 2:30 pm - 5:30 pm

Venue : Hall, SKH Saint Benedict's School, 11 Lam Chung Ave, Choi Hung Estate, Kowloon

Speaker's presentation slides are as follows:

- Presentation by AiTLE
- Presentation by EDB ITE Section
- Presentation by EDB ITMD
- · Presentation by Speedy Group
- Presentation by Speedy Group (Video)
- Presentation by Cisco 20171128
- Presentation by Cisco 20171129
- Presentation by Microsoft

Remark: Presentation slides by HKPF could not be provided.

# Promote IT security related events / activities through school circular memorandum

#### https://www.cybersecurity.hk/en/resources.php



#### EDBCM No. 92/2018 Cyber Security Campaign (Phase Two)

#### Education Bureau Circular Memorandum No. 92/2018

 From
 : Secretary for Education
 To:
 Heads of Primary and Secondary Schools

 Ref.
 : EDB(EID/ITE)/IT/PRO/189

 Date
 : 28 May 2018

#### Cyber Security Campaign (Phase Two)

#### Summary

The purpose of this circular memorandum is to inform heads of schools about the launch of "Cyber Security Campaign (Phase Two)" organised by the Cyber Security and Technology Crime Bureau (CSTCB) of Hong Kong Police Force (HKPF), and the distribution of poster and leaflet on the campaign.

#### Details

2. To enhance the awareness on cyber security, as well as to let the public and students understand the impact and threats imposed by botnets, the CSTCB of HKPF has launched the first phase of "Cyber Security Campaign" in 2017. To further promote this campaign and the related educational activities, the HKPF has updated the leaflet and poster, as well as the related website to include further information about the latest figure of various cyber threats, new virus cleaning tools, as well as two new videos to introduce different types of cyber threats and promote the campaign.

3. The HKPF has organised a series of publicity and educational activities for the public with an objective to reduce the number of botnet-infected computers in Hong Kong and to diminish the cyber threats against the local critical infrastructures, organisations and the public. The supporting IT companies have agreed to provide free scanning and removal tools for this Campaign. The public can download, scan and clean their computers, if infected. For details, please visit the website at http://www.cybersecuritycampaign.com.hk.

4. A set of promotional materials including poster and leaflet on preventive measures for cyber security will be distributed to schools. School Heads are requested to complete the relevant collection form (Annex 1 for primary schools / Annex 2 for secondary schools) and make arrangement to collect the promotional materials at the respective Regional Education Offices from <u>30 May to 29 June 2018</u>. The softcopies of the poster and leaflet have also been uploaded to the website http://www.cybersecuritycampaign.com.hk.

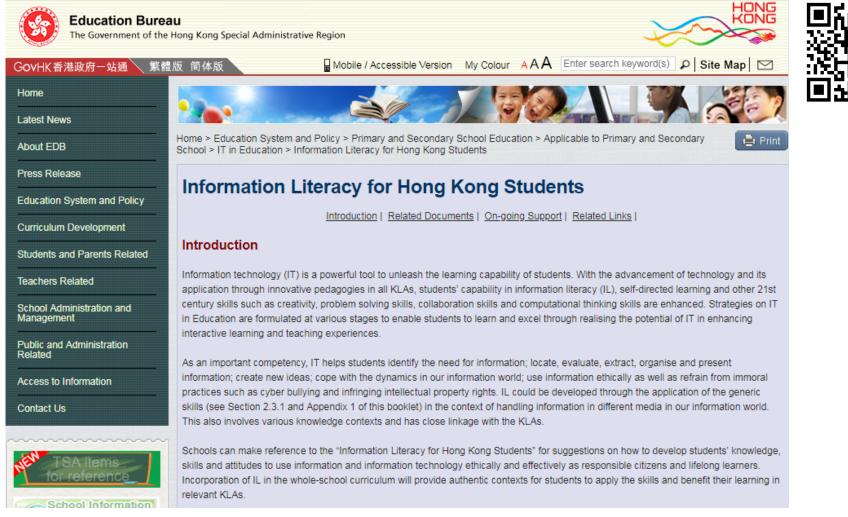
#### https://www.cybersecuritycampaign.com.hk/



https://www.cybersecurity.hk/en/contest-2018.php



### Information Literacy for Hong Kong Students



#### http://www.edb.gov.hk/il/eng

## Information Literacy for Hong Kong Students

#### Information Literacy for Hong Kong Students

#### Background

Since 1998, the EDB has introduced a series of strategies on Information Technology (IT) in Education to facilitate schools' incorporation of IT in learning and teaching. In 2000, a set of IT Learning Targets, highlighting the use of IT and information, was developed to serve as a set of guidelines for schools to organise relevant learning and teaching activities. In tandem with the Learning to Learn curriculum reform which is now moving towards continual curriculum renewal, we have reviewed the implementation of the IT Learning Targets and further strengthened the role of information literacy (IL) which is essential for lifelong and self-directed learning. The IL for HK Students is thus developed to help schools understand how to develop students' knowledge, skills and attitude to use information and information technology at different key stages. (*Please refer to the Annex for details.*)

#### IL as a Learning Goal

Students will use information and information technology ethically and effectively as responsible citizens and lifelong learners.

#### Objectives

Information Literacy (IL) refers to the ability and attitude that would lead to an effective and ethical use of information. The IL for HK Students aims to develop students' abilities to:

- identify the need for information;
- locate, evaluate, extract, organise and present information;
- create new ideas;
- cope with the dynamic in our information world; and
- refrain from unethical use of information such as cyber-bullying and infringing intellectual property rights.

#### Relationship with Values Education/Generic Skills/Four Key Tasks/Key Learning Areas

Incorporation of IL in the school curriculum will provide authentic contexts to promote values education. While the learning and teaching effectiveness is enhanced through an IT-rich environment supported by high-quality and easy-to-use e-resources, due attention has to be given to the promotion of ethical use of information. IL can be developed in the context of handling information with different media when students are provided with learning experiences which involve the application of Generic Skills (e.g. creativity and problem solving) or the planning and implementation of the Four Key Tasks (i.e. Moral and Civic Education, Reading to Learn: Towards Reading across the Curriculum, Project Learning, and IT for Self-directed Learning) to develop learning to learn capabilities. While students apply IL in relevant Key Learning Areas/Subjects/School Library activities, they can accommodate the advances in technology to benefit their learning and simulate the practice of informed and responsible citizens.

Literacy Areas 1, 4 & 8 are relevant to the information security matters



Category	Eight Literacy Areas		
Effective and Ethical use of information for lifelong learning	1	Use, provide and communicate information ethically and responsibly	
Generic IL Skills	2	Identify and define a need for information	
	3	Locate and access relevant information	
	4	<b>Evaluate</b> information and information providers, in terms of authority, credibility and current purpose	
	5	Extract and organise information and create new ideas	
Information World	6	Be able to <b>apply</b> IT skills in order to process information and produce user-generated content	
	7	<b>Recognise</b> the roles and functions of information providers (e.g. libraries, museums, internet) in the society	
		<b>Recognise</b> the conditions under which reliable information could be obtained	

http://www.edb.gov.hk/attachment/en/edu-system/primary-secondary/applicable-to-primary-secondary/it-in-edu/Information-Literacy/IL20180516E.pdf

## **Overview of ITE Grants**

### Recurrent

### CITG

### \$197,929 - 680,748 (\$397,000 on average)

- IT-related consumables
- Digital resource materials
- Internet fee
- Employment/hire of TSS
- Opening for school's IT facilities
- Maintenance, upgrading and replacement of IT facilities

### One-off

### ITE4 (\$100,000)

Mobile device

### Funding for ITE4

\$48,530 to \$121,340 (\$70,000 on average)

- WiFi subscription
- Maintenance/ replacement of mobile devices

### ITSSG

### \$300,000

- Employment/hire of TSS
- Additional technical support services such as data migration and cloud management

### OITG (\$200,000)

- Mobile device
- Employment/hire of additional TSS
- E-resource/platform

## Sharing on useful resources

## InfoSec Website

• One-stop portal for the general public to effectively access information and resources on information security as well as measures and best practices for prevention of cyber crimes.



	→English ,繁體版 ,简体版						
FAQ Sea 資訊安全網 SECCS General Users	• FAQ • Search :	Go	Change text size: A A A				
	General Users	Parents & Teachers IT Profes	ssionals SME				
Home	Llome & Protecting Your Dusiness &	Coguring Your Web Application		🖳 Print			
About Us	Home > Protecting Your Business >	Securing Your web Application		e Print			
What's New							
News and Events	Protecting Your Business						
Promotion & Public Education	Securing Your Web Applications						
Information Security							
Virus & Malicious Code	Advances in web technologies coupled with a changing business environment, mean that web applications are becoming more prevalent in corporate, public and Government services today. Although web applications can provide convenience and efficiency, there are also a number of new security threats, which could potentially pose significant risks to an organisation's information technology infrastructure if not handled properly.						
Protecting Yourself							
Protecting Your Computer	Today traditional network security measures and technologies may not be sufficient to safeguard web applications from new threats since attacks are now specifically targeting security flaws in the design of web applications. New security measures, both technical and administrative, need to be implemented alongside the development of web applications.						
Protecting Your Business							
Computer Related Crime	Common Vulnerabilities in Web A	pplications					
Anti-Phishing	Administrative Measures for Securing Web Applications     Technical Measures for Securing Web Applications						
Technical References	<ul> <li>A Checklist for Web Applications</li> <li>Guidelines for Web Application O</li> </ul>	Acceptance					
Related Ordinances	<ul> <li>Tips for End-users for Preventing</li> </ul>						
Public Services							
Useful Resources	4 Back			▲ Тор			
Glossary							

https://www.infosec.gov.hk/english/business/other\_sywa.html

### Information Security Guide for Small Businesses - HTTPS and Website Security





https://www.cybersecurity.hk/js/pdfjs/web/viewer.html?file=/images/resources/leaflet-https\_en.pdf

## Secure Your Website Be a Smart Website Owner





https://www.cybersecurity.hk/js/pdfjs/web/viewer.html?file=/images/resources/Website%20Leaflet\_Blue\_01.pdf

## **Cyber security Information Portal**



https://www.cybersecurity.hk/en/safety-web.php

## **Cyber security Information Portal**



Home > School Visit

#### **School Visit**

From Sep 2007 to Mar 2018, we have visited 221 schools and relayed information security message to over 66 400participants, including students, teachers and parents. About Us Œ Type of School Visit Đ Đ **Schools Visited** Đ **Presentation Materials** O Statistics

https://www.cybersecurity.hk/en/school-visit.php