



Drafting of
**Through-Trained
Teaching Schedule**
for
Computer Subject
of

Primary & Junior Secondary

Background

- Overlapping of content in Primary & Junior Sec
 - Waste learning time
 - Decrease learning motivation
- Great difference in content among Primary Schools
 - Great Learning Diversities

Background (Cont'd)

- Content “seems easy” from Management point of view
 - Making serious “Part-Time” teaching
 - Lack of Professional development need
 - Lower the teaching quality

Understand

- EDB Curriculum
 - Provision of framework
 - Define learning targets
 - Will not and should not down to teaching schedule level
 - Related to resources provision to school
 - Need time & a series of procedure to follow for every update

Our action

- Draft
- A **Through-trained**
 - P.1 to S.3
- **Teaching Schedule**
 - Under EDB existing curriculum requirement and framework
- For **Computer Subject**
- Of **Primary & Junior Secondary**

Our works

- Steps
 - Define “learning objects”
 - Allocate “learning objects”

Define “learning objects”

- Firstly
 - Define we should have “ASK” involved in the Teaching Schedule
 - A = Attitude
 - S = Skill
 - K = Knowledge

Drafting Through-trained Teaching Schedule for Primary & Junior Sec Computer Subject

[[[click on the link, and press ALT-ENTER]]]

- A. [Attitude](#)
- B. [Skill](#)
- C. [Knowledge](#)

Define “learning objects”

- Then
 - For @ domain, we define the topics within that domain

Attitude

[[[click on the link, and press ALT-ENTER]]]

- [Social networking website](#)
- [Copyright, CC, plagiarism](#)
- [Cyberbullying](#)
- [Internet addict](#)
- [Privacy](#)
- [Work & Health issue](#)
- [Netiquette](#)
- [Green IT](#)
- [Digital Divide](#) → ICT
- Application of IT to your daily life
 - Good use
 - like Info Search, services, save time and resources, better data collection

Define “learning objects”

- Then
 - For @ domain, we define the topics within that domain

Skill

- [Switch on and off computer](#)
- [Keyboard skill](#)
- [Basic OS operation](#)
- [File & folder handling, compression](#)
- [School based intranet and IT facilities adaption](#)
- [Chinese Character input](#)
- [Word processing](#)
- [Spreadsheet](#)
- [Presentation software](#)
- [Databases](#)
- [Image editing](#)
- [Video editing](#)
- [Audio editing](#)
- [Web authoring](#)

- [Animation production](#)
- [Programming](#)
- [Information search, analysis](#)
- [Webmail](#)
- [Wireless connection \(WiFi\)](#)
- [Wireless security implementation](#)
- [Cloud services](#)
- [Utility Programs](#)
- [Security issue](#)
- [Ability to use different mobile devices](#)

Define “learning objects”

- Then
 - For @ domain, we define the topics within that domain

Knowledge

- [Information processing and presentation](#)
- [Computer system](#)
- [Networking & Internet Application](#)
- [Programming](#)
- [Social Implication](#)

Define “learning objects”

- Lastly,
 - For @ topic, we define the learning objects

Cyberbullying

- Basic Idea of Cyberbullying
- Example of Cyberbullying
 - In Social Media
 - In Gaming
 - In forum/video sharing site by commenting
- Consequence of Cyberbullying
- Prevention from Cyberbullying

- Signs of Cyberbullying (non Pri)
 - Signs a Child is Being Bullied
 - Signs a Child is Bullying Others

Computer Systems

- Basic Computer Component
 - Hardware
 - Case
 - Keyboard
 - Mouse
 - Monitor
 - Speakers
 - Printer
 - Software
 - OS
 - File Manager
 - Antivirus
 - Application Software
 - Office Suite
 - Browser
- More about Computer Component
 - Inside System Case

Define “learning objects”

- Lastly,
 - For @ topic, we define the learning objects

Word Processing

- Function of Word
 - When use word
- Word Interface
 - Input text to word
 - Know toolbar of word
- Formatting
 - Font type, size, face, color
 - Paragraph alignment
 - Indent
 - Bullet and numbering
 - Border and pattern
 - Line spacing
- Word Art
- Table
 - Row height and column width
 - merge and split cell(s)

Programming

- Introduction to Algorithm Design
- Identifying Inputs and Outputs of a Problem
- Basics of Constants and Variables
- Selection of Appropriate Data Types
- Input Statements, Output
- Statements and Assignment Statements
- Calculation
- Basic Control Structures
 - Sequence
 - Selection
 - Iteration
- Tracing and Testing Algorithms

Allocate “learning objects”

- After defining all “Learning Objects”, we allocate the “Learning Objects to different year level (from P.1 to S.5)

		Skills													Knowledge				
		Word access	Image editing	Video editing	Audio editing	Web authoring	Animation production	Programming	Information search, mail	Webmail	Wireless connectivity (WLAN)	Wireless security applications	Cloud services	Utility Programs	Security in software packages regularly available	Ability to distinguish mobile devices	Information processing presentation	Computer system	Networking Internet Applications
14	S1								Use of search engines, search engines, social network search tools, Web 2.0, comparing and contrasting search engines, various methods of Internet, intranet, mobile, etc. Blogs	Send (by text, etc.)					Basic personal email, wireless (personal)		Office/Classroom Computing, Information Systems, Cloud/Software, Database		
9	S2			Tools: Tools (Layout, Timeline, Color, etc.) Tools: Tools (Color, etc.) Tools: Tools (Color, etc.) Tools: Tools (Color, etc.) Tools: Tools (Color, etc.) Tools: Tools (Color, etc.)	Audio Editing: Editing, etc.		Creating: Creating, etc.										Database/Software, etc.	Hardware: Hardware, etc.	
7	S3																		Networking (Home and Business) applications

		TD	
		Programme	Social Implications
7	P1		Data Systems
6	P2		Clouding
7	P3		
7	P4	Clouding Design App Development Clouding Lang (through research)	
9	P5		Data Storage (or Research)
10	P6		Quantum Design

		TD	
		Programme	Social Implications
14	S1		
9	S2		Design Accuracy in Automated Operations (AI) Social Engineering CyberSecurity Trustworthy In change Contract levelled job sharing Organisation Security Design Clouding
7	S3	Clouding App Development Clouding Lang Research (for through research, experimenting with)	

Spreadsheet as example

P5	Introduction to Spreadsheets Row, column Basic Operations Formatting Insert, delete Functions Sum, average Creating Charts AutoFill
S2	Data types print Print area Page layout view Formula and Cell Reference Relative address, absolute address Functions Sum, average, max, min, count, countA, countif, rank, if , left, right, vlookup, len Insert chart, format chart, insert chart to power point Data Manipulation Techniques Search, replace, filter, sorting, conditional formatting

Points to note

- This is only the first draft, many improvement is need, like
 - Echo number of teaching hour (lesson)
 - Meaning of some terms
 - scope / depth
 - Advancement of technology
 - Robotic
 - 3D printing
 - raspberry pi, arduino ...

Points to note

- What we listed out are point-form
 - Not how to teach
 - When teach, can do integration
 - Like if in a certain year-level, need to teach
 - Internet Searching Skills
 - Presentation Software
 - Cyberbullying
 - Can do in this way
 - Student doing research of Cyberbullying
 - through internet
 - And do a presentation afterward