

AiTLE + HKACE : Announcement of "Through-trained Teaching Schedule of Computer Subject for Primary & Junior Secondary"

Drafting of **Through-Trained Teaching Schedule** for **Computer Subject Primary & Junior Secondary**

Background

- Overlapping of content in Primary & Junior Sec
 - Waste learning time
 - Decrease learning motivation
- Great difference in content amony 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"

- 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

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
- <u>Digital Divide</u> → ICT
- Application of IT to your daily life
 - Good use
 - like Info Search, services, save time and resources, better data collection

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



- 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

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

Knowledge

- Information processing and presentation
- Computer system
- Networking & Internet Application
- Programming
- Social Implication

- 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
 - o 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

- 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
 - o Paragraph alignment
 - Indent
 - Bullet and numbering
 - Border and pattern
 - Line spacing
- Word Art
- Table
 - Row height and column width
 - o 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 "Learing Objects to different year level (from P.1 to S.5)

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Spreadsheet as example

P5	Introduction to Spreadsheets
	Row, column
	Basic Operations
	Formatting
	Insert, delete
	Functions
	Sum, average
	Creating Charts
	AutoFill
S2	Data types
JZ	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