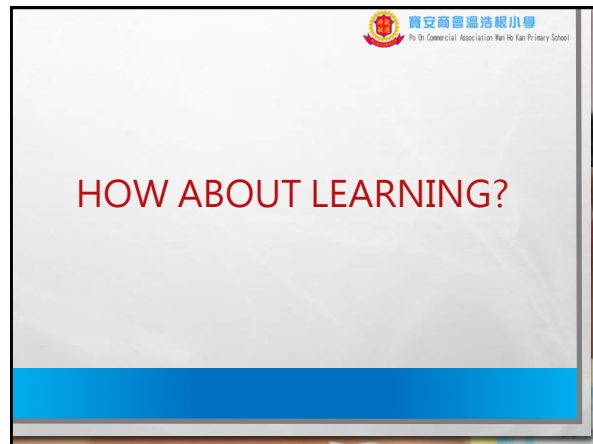
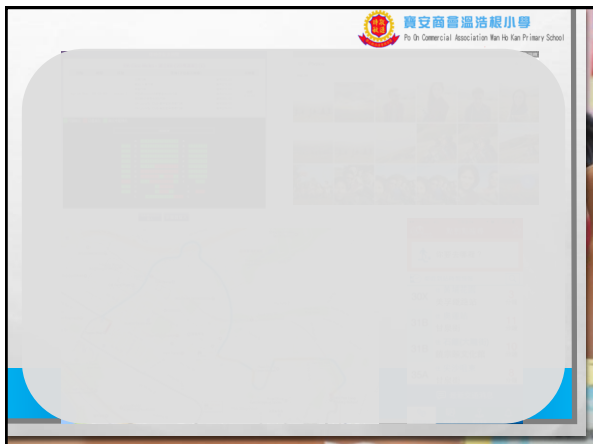
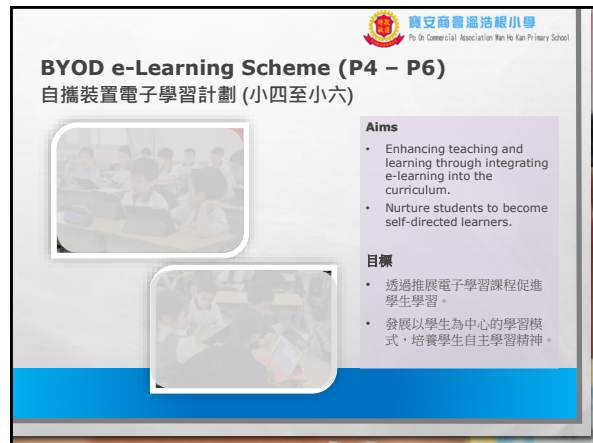
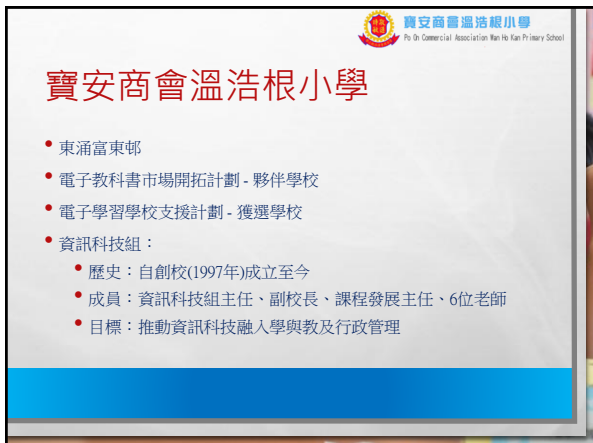




Today's Students

- They are **digital natives** 數碼原生代
- They live in a **multimedia** world
- Their media is all **color**
- They prioritize **visual** learning
- They demand **creativity**
- They learn best through **trial and error**
- They constantly **connect** and **collaborate**
- They access information that is **live** and **linked**

Source: www.k12blueprint.com

Source: <http://www.k12blueprint.com>

資訊科技教育與學校課程的同步發展



Source: 第四個資訊科技教育策略諮詢文件

資訊科技組發展理念

- 目標：
 - 讓學生在資訊爆炸的時代，具備利用資訊科技有效地處理資訊的能力。
 - 讓學生可以使用資訊科技主動及積極地尋找相關的資訊，去處理學習上及日常生活中的各種問題。
 - 讓老師裝備自己，與時並進，具備應用資訊科技教學的能力，提升教學效能。

資訊科技組發展理念

- 策略：
 - 配合學校整體發展及需要，訂立三年計劃及周年計劃
 - 重視課程規劃及教學法，於各科推行合作學習、任務為本的學習及一對一的學習
 - 電腦科方面，強調利用資訊科技進行跨學科學習，而非單單學習電腦知識/技能

整體規劃

- 教學方面：
 - 以學生為中心
 - 互動課堂增加學生學習動機
 - 即時掌握學生的學習進度
 - 自主學習
- 評估方面：
 - 即時回饋
 - 打破時空限制，把學習延伸到課堂以外
 - 紀錄成績及分析表現

教師專業發展

- 教師是課程的實踐者
- 透過教師專業發展，讓教師在理念、心態及技能上準備就緒，以配合電子學習的推行
- 由先驅老師以小步子開始，再以教育局政策為助力，分階段進行全面的教師發展：
 - 反思何謂電子學習和發展電子學習原因，建立共同遠景
 - 審視校情，並參考其他學校的經驗，定訂可達到的目標
 - 持開放態度，積極支援老師，分享先驅老師的成功經驗



教師專業發展

- 專業發展課程的主題/重點：
 - 應用電子學習策略及電子資源提升學與教效能
 - 應用資訊科技進行教學及評估活動以照顧學習差異
 - 運用資訊科技加強互動及協作學習
 - 應用資訊科技進行自主學習
- 專業發展課程的類型/模式：
 - 教育局或其他機構的工作坊/分享會
 - 在各科的科務會議中增設教師電子教學分享
 - 共同備課及同儕觀課，討論及檢視電子學習策略
 - 校本電子學習培訓
 - 友校參觀/分享會



推行 E-LEARNING / B.Y.O.D. 元素



Buildup of WiFi Network
Information Note to Schools

Introduction

For your school's preparation of enhancing / trying up the IT infrastructure, you may make reference to this information note in considering the standard provision and add-on services required by your school.

Standard Provision

From schools' experience in the Support Scheme for e-Learning in Schools and also WiFi 900 Batch 1, the following provision is considered sufficient for schools to access the e-learning resources and conduct common e-learning activities. It is outlined here for schools' reference in figuring out the expected service to be delivered by the WiFi network.

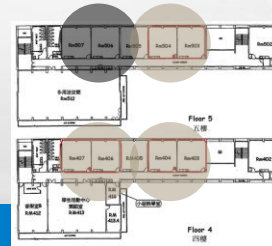
- **WiFi Connectivity**—use IEEE 802.11 a/b/g/n or above network in a standard classroom. The minimum number of classrooms to be covered should be at least equal to the number of approved classes for the 2017/18 school year.
- **Number of Concurrent Connection**—commensurate with the maximum number of students, say 40, in a class with at least 1 Mbps upload / download bandwidth per user connection.
- **Number of classrooms using WiFi concurrently.**
- **Authentication Method**—use 802.1x standard based authentication and Hong Kong Education City single sign-on services.
- **Session Control**—Hong Kong Education City authentication service can support one device or multiple devices to connect based on user group (student, teacher).

Broadband

- 10M/30M/50M → 100M/200M → 500M/ 1G
- One / two broadband lines?

Access Point

- IEEE 802.11 a/b/g/n → IEEE 802.11 a/b/g/n/ac
- Shared AP?



BYOD MODELS

Figure 1: BYOD Models Along the Continuum from Standardization to Flexibility

1	2	3	4
Limit personally owned devices to specific brand/model	Limit personally owned devices to specific technical specifications	Limit personally owned devices to specific capabilities re: software, tools, apps, etc.	No limitation on personally owned devices, provided they are internet-ready

Source: Bring Your Own Device: A Guide for Schools, Alberta Education

MDM STUDENT

P.O. Commercial Association Wan Ho Kan Primary School

1 A ENTER

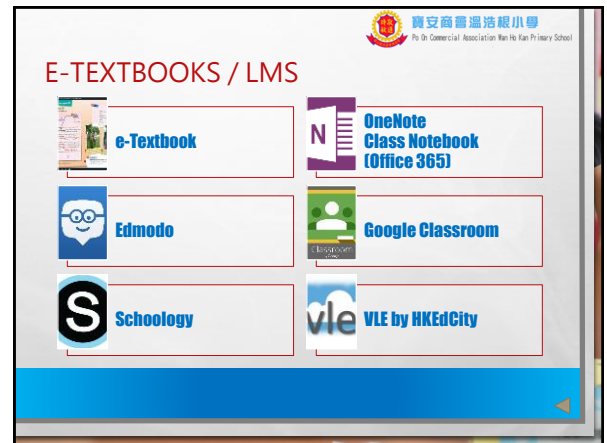
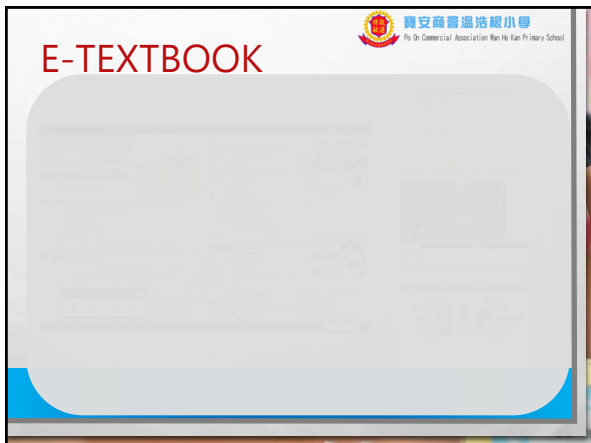
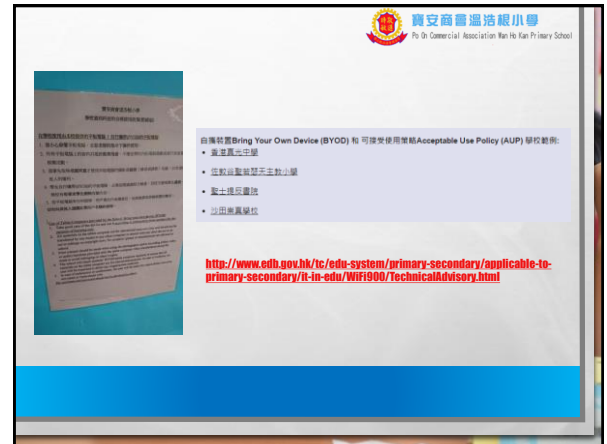
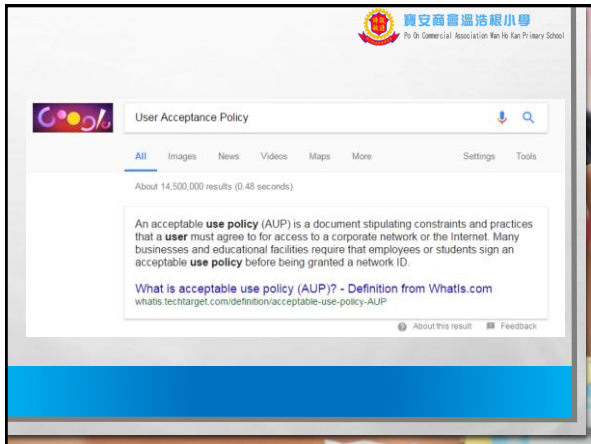
下載項目 世界時鐘 地圖 我的檔案 我的書籤 故事劇場

下載項目 計算機 音樂 剪貼簿 我的電子書架 遊戲影片

我的教學資源庫 設定 媒體庫管理 智能城市綠 雲端硬碟 電子郵件

Test

Ver: 1.0.2 Test



VOICE RECORDING

VIDEO RECORDING

INSERTING WEB LINKS

YOUTUBE VIDEOS FOR FLIPPED CLASSROOM OR CONSOLIDATION AFTER LESSON

INSERTING PHOTOS

A SNAPSHOT OF THE BLACKBOARD

DIGITAL BULLETIN BOARD TOPIC: MY FAVOURITE HOBBY

DIGITAL BULLETIN BOARD TOPIC: MY FAVOURITE SNACK

ONENOTE - INSERT ONLINE PICTURES VOCABULARY / SENTENCE BUILDING

TEXT TYPE TEACHING – REVIEWS

READING AUTHENTIC REVIEWS ONLINE

e-Learning (Preparation):

- Install useful apps in the iPads

e-Learning (Preparation):

- Recommended websites and apps for each unit can be used in English lessons and as self-learning tools at home.
- A parent workshop in August

Modes of Reading

Record myself

Quality Education Fund (QEF) E-readers

Quality Education Fund (QEF) E-readers

總結

- 學校管理層之支持，學科老師願意反覆嘗試
- 學校技術支援的人手及硬件配合情況非常關鍵
- 與家長充分溝通，明白及認同學校的安排
- 與科組老師共同備課，「小步子」推行，由試驗推進成恆常
- 經常反思，掌握新的電子教學方法，不斷優化「學與教」
- 找好的合作伙伴，多作交流，結伴同行

謝謝！