

22/March/2021

聖文德書院

St. Bonaventure College and High School

學校如何有效推動 自攜裝置(BYOD)項目



<https://bit.ly/3kqr4an>

聖文德書院
St Bonaventure College & High School



School Background

- Our school is a Catholic secondary school following the Franciscan Spirit in education found by 1970.
- We strive to build up a pleasurable learning environment, motivating our students to learn with a humble attitude so as to achieve wisdom.



謙誠智慧

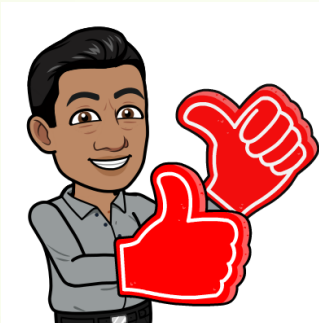
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聖文德書院
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School Background



2001-2014教育局資訊科技教育卓越中心



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Today, we are **NOT** sharing...

- How to build up the school infrastructure? ✘
- How to apply grants? ✘



The screenshot shows the Education Bureau website with a navigation menu and a main content area. The main content area features a header image of a desk with a pencil holder and a chair, with the text '主頁 > 教育制度及政策 > 小學及中學教育 > 小學及中學教育適用 > 資訊科技教育 > 在中小學推行「自攜裝置」'. Below this is the title '在中小學推行「自攜裝置」' and a sub-section '1. 前言'. The text in the sub-section discusses the 'Fourth Information Technology Education Strategy' and the 'Bring Your Own Device' policy.



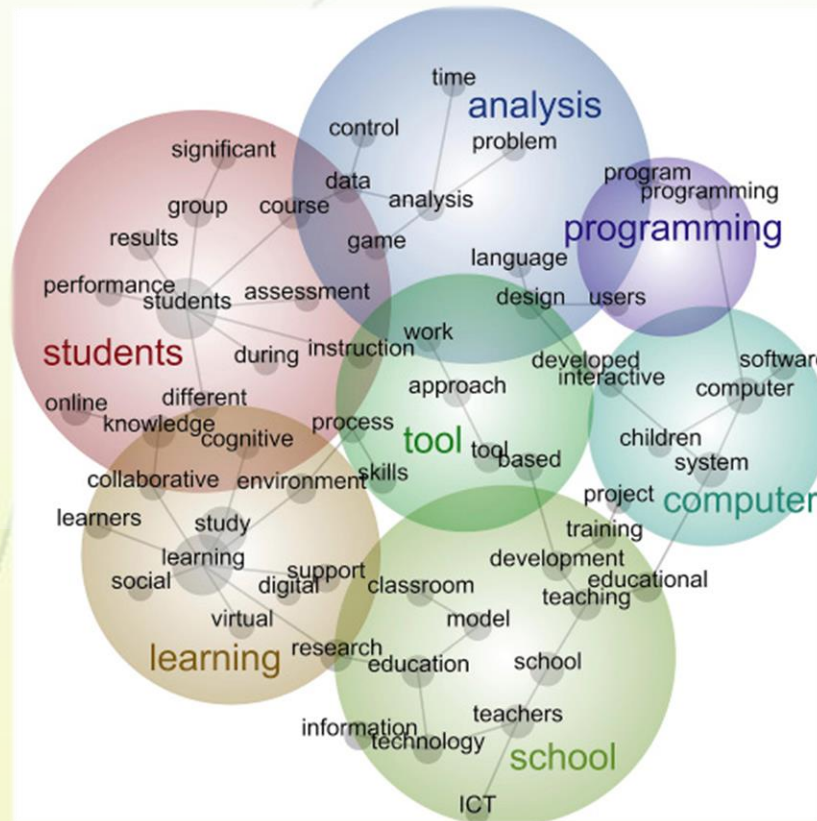
https://www.edb.gov.hk/tc/edu-system/primary-secondary/applicable-to-primary-secondary/it-in-edu/BYOD/byod_index.html

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Today, we are **NOT** sharing...

- What is BYOD? ✘
- Is BYOD good for teaching and learning? ✘

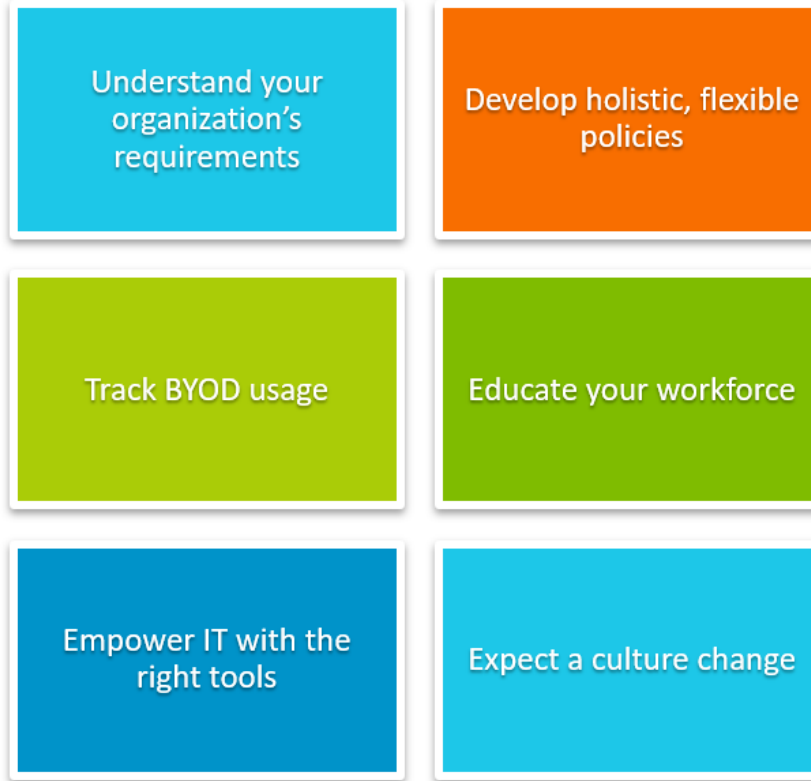
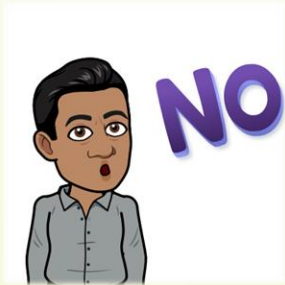


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Today, we are **NOT** sharing...

- What is the **BEST** BYOD practice? ✘
- How to **SOLVE ALL** problems of BYOD? ✘

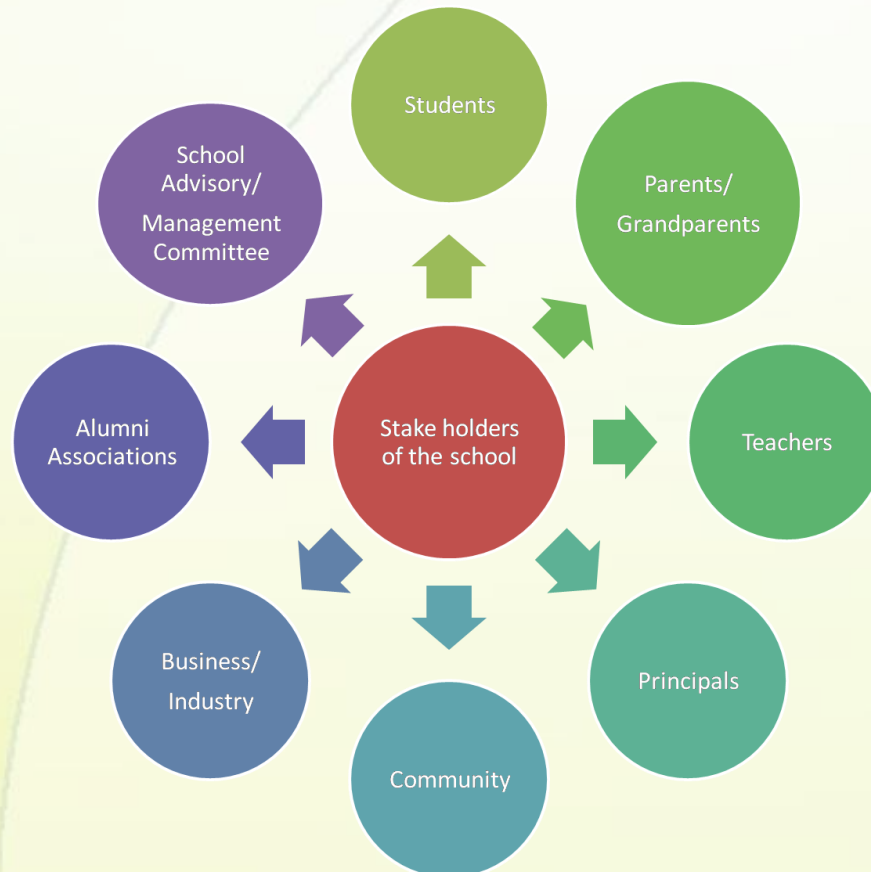


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Today, I am sharing...

- My experience on BYOD implementation.
- How to avoid some of the BYOD risks.

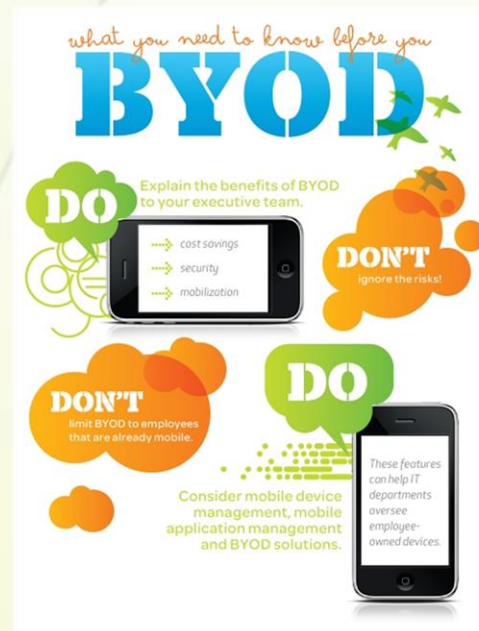


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Today, I am sharing...

- How to deal with the needs and concerns of various stakeholders.
- The BYOD policy of my school.
- How to apply BYOD in teaching and learning.



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《第四個資訊科技教育策略》

基礎設施

電子學習

更新課程、教學及評估方法

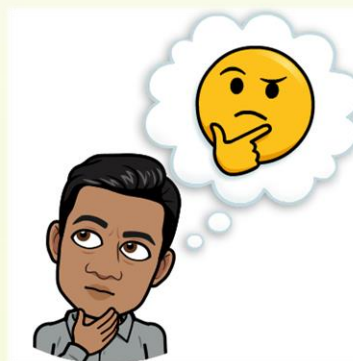
建立實踐社群

提升學校專業領導力量

家長、持分者及社區齊參與



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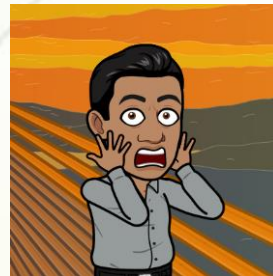


BEFORE implementation

Consensus?

Purchasing procedures?

Labour division?



DEP? VPP?

Parent supports?

MDM?

BYOD policy?

Staff development?

Learning management system?

Technical issues?

Any choice?



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BYOD implementation

1) NO choice

- ★ Find no excuse
- ★ For the students
(Whatever it takes)
- ★ Don't blame ITC
- ★ Try your utmost
- ★ Be honest



NO EXCUSES!

99% of failures come from people who
have the habit of making excuses.



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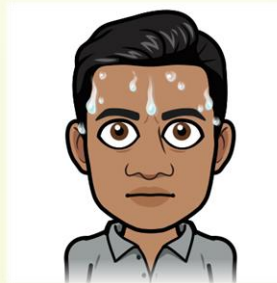
BYOD implementation

2) Consensus (IMC, PTA, Staff) Schedule of preparation:

- ★ D-day (1st Sep. 2017, Friday. F.1 only)
- ★ PTA meeting and AGM (12 months before D-day)
- ★ IMC meeting (16 months before D-day)
- ★ Staff meeting (24 months before D-day)
- ★ Teacher development (30 months before D-day)
- ★ IT team first meeting (36 months years before D-day)



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BYOD implementation

2) **Consensus** (IMC, PTA, Staff) **Past** and **Present** situation:

- ★ BYOD 1:1 for all **F.1 to F.2 (to F.4)** classes.
- ★ **No (Annual)** updated App lists for MDM.
- ★ All classes with **10%+ (fixed)** BYOD lesson time.
- ★ One Online Classroom **per subject + per class**.
- ★ **Lesson plans must contain mobile learning.**
- ★ Peer lesson observations **on mobile learning.**



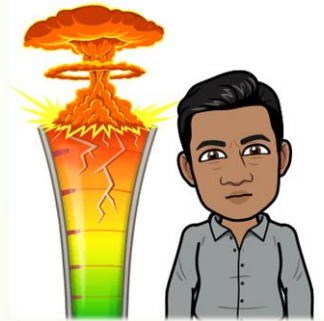
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BYOD Implementation

3) Purchasing procedures: Concerns

- ★ Brands, models and accessories
(Mobile phone / iPad 128 GB Wi-Fi + Smart cover + MDM... / Others...)
- ★ Tendering procedures, criteria and benchmarks
(Authorized education resellers, comparison table for IMC...)
- ★ CCF **x** (關愛基金援助項目-資助清貧中小學生購買流動電腦裝置以實踐電子學習)
- ★ Payment method, booth, labour, scheduled supply of iPads...
(Full pay or not? Who take charge of payment method? When and where? Cash, PPS, cash cheque and credit cards? Allow installments? Communication? Delivery date?)
- ★ MDM installation, iPads / accessory allocation...
(Storage? Delivery plans and distribution schedule? Labour? Records?)
- ★ School financial issues
(CCF report, invoice and receipt for auditing purposes, other written and electronic records?)



<https://bit.ly/3kqr4an>



BYOD implementation

3) Purchasing procedures: Authentic situation (20-21)

★ All F.1 students must have iPads before November.



Tentative dates	Actual dates	Actions
early-April	early-April	Tendering procedures
late-June	Late-June	Agreement with vendor
mid-July *	Cancelled	F.1 Registration days
late-August *	Cancelled	F.1 Orientation day
mid-September *	Cancelled	LWL recruitment day
late-October	Late-November	Delivery of iPads
late-January	Late-February	Payment
late-February	???	CDS to CCF



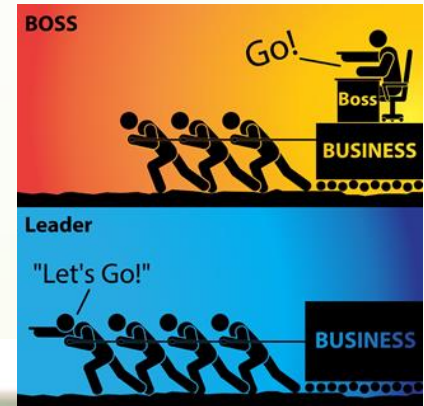
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BYOD implementation

4) Staff development and labour division

- ★ **The Principal** (be a leader, not a boss, do trust and support)
- ★ **ITC and IT team** (monthly workshops and clerical support)
- ★ **Academic head** (set goals and plans, slow but steady move)
- ★ **Discipline / Counseling team**
(set and execute rules)
- ★ **Subject panels**
(develop e-learning curriculum and assessment)

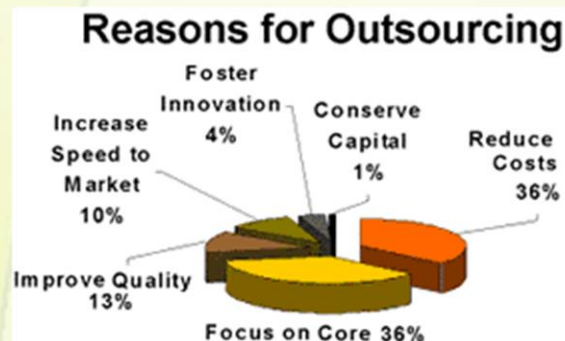


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BYOD implementation

4) Staff development and labour division

- ★ **ICT teachers** (facilitate students' self-learning by mobile devices)
- ★ **Form teachers** (ready to “communicate” with parents)
- ★ **Teachers** (learning circles put theory into practice, be honest, action research...)
- ★ **TSS** (iPad management, MDM and technical supports)
- ★ **Other staff** (locker layout, account payment, inventory, official documents)
- ★ **Students** (self-directed learning, avoid off-tasks)
- ★ **Vendors** (...)



<https://bit.ly/3kqr4an>



BYOD implementation

5) Parents' supports (and be supported)

- ★ PTA teachers
- ★ Parent IT workshops
- ★ Seminars and classes
- ★ Sunshine calls
- ★ Parents' day
- ★ Outsiders' supports



<https://www.hkedcity.net/parent/learning/#c=ict>



<https://bit.ly/3kqr4an>



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BYOD implementation

6) BYOD policy

- ★ EDB's support (i.e., 在中小學推行「自攜裝置」)

https://www.edb.gov.hk/tc/edu-system/primary-secondary/applicable-to-primary-secondary/it-in-edu/BYOD/byod_index.html

- ★ School-based BYOD policy must be formulated and **agreed by all parties** (except students) .
- ★ BYOD policy **must be written on student handbook**.
- ★ Execute firmly, amend regularly but not suddenly.



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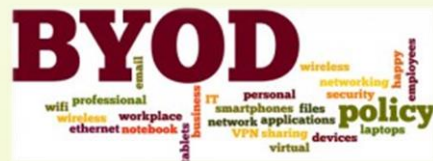
BYOD implementation

6) BYOD policy (自攜裝置政策須知)

- ①如已有合適的iPad，毋須額外購置。如要購置，必須選擇Apple授權的**教育經銷商**。 (<https://www.apple.com/hk/en/education/how-to-buy/aaer.html>)
- ②**學校有權檢查學生的自攜裝置**，家長應信任學校。(+HKT MDM)
- ③**家長要定時轉換戶口密碼，勿用指紋或面孔識別**。(+HKT MDM)
- ④**家長必須與學生妥善溝通，訂立在家使用iPad的規則**。
- ⑤使用iPad時要光線充足，連續使用時間不可多於半小時。



<https://bit.ly/3kqr4an>



BYOD implementation

6) BYOD policy (自攜裝置政策須知)

- ⑥切勿在上課中途使用**儲物櫃**存取iPad。
- ⑦放學後必須**把iPad帶回家**。
- ⑧必須得到上課老師的許可後才可連接學校之無線網絡。
- ⑨必須得到上課老師的許可後才可操作iPad(包括相機/錄音功能)。
- ⑩必須**自備電源**，如機件故障應及早維修。

借用電子器材協議書

器材資料：器材型號/機身編號/數量/借用期

借用規定：

1. 驗收器材確保器材無誤。
2. 使用及保管責任，避免損毀/遺失。
3. 不得作非教學用途，不得轉借他人。
4. 損壞、遺失或造成損失需支付費用。

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BYOD implementation

7) Learning management system (LMS)

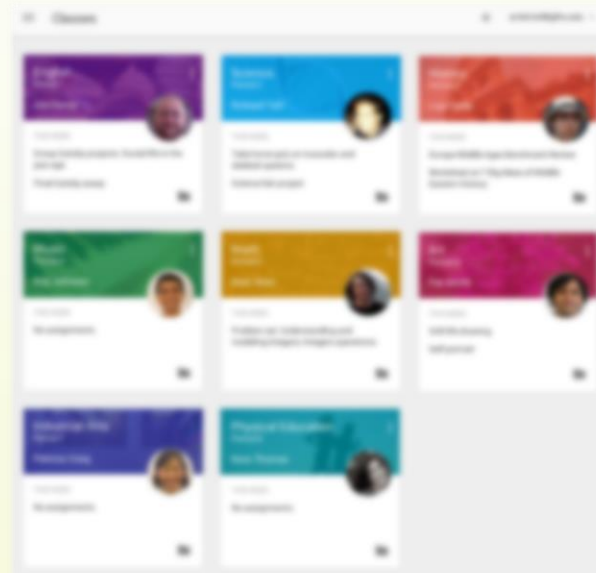
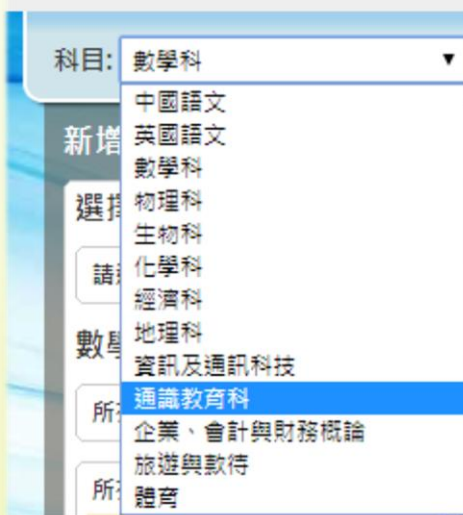
(a) Flipped Classrooms (e.g., Various LMS platforms...)

(b) Online assessment (e.g., HKEdCity OQB...)

<https://www.hkedcity.net/questionbank/zh-hant/content/seminar4>



網上試題學習平台 (OQB)



<https://bit.ly/3kqr4an>

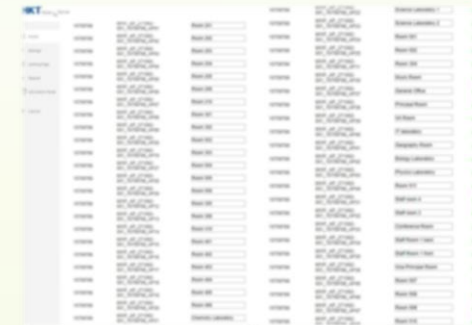
BYOD implementation

8) Technical issues

Wi-Fi infrastructure and authentication
Mobile Device Management (MDM)



ID	Label	Name	Model	Model2	OS	BYOD	Supervised	Locked	Battery	Space	Apps	AppStore	Reg. Date	Allow Notification	MDM ID#	Last active	Status
10101		10101	iPhone	12,0	x	✓	✓	40%	80%	30	✓	2018-10-01	✓	2018-04-10	+ 5 weeks ago	⚠	
10102		10102	iPhone	12,0	x	✓	✓	22%	80%	1	x	2018-10-01	✓	2018-04-10	+ 10 weeks ago	⚠	
10103		10103	iPhone	12,1	x	✓	✓	52%	84%	3	x	2018-10-01	✓	2018-04-10	+ 12 weeks ago	⚠	
10104		10104	iPhone	12,1	x	✓	✓	51%	81%	17	x	2018-10-01	✓	2018-04-10	1 day ago	✓	
10105		10105	iPhone	12,1	x	✓	✓	100%	84%	10	x	2018-10-01	✓	2018-04-10	1 day ago	✓	
10106		10106	iPhone	12,1,4	x	✓	✓	82%	80%	26	x	2018-10-01	✓	2018-04-10	+ 2 days ago	✓	
10107		10107	iPhone	12,1,1	x	✓	✓	35%	88%	31	x	2018-10-01	✓	2018-04-10	1 day ago	✓	
10108		10108	iPhone	12,1,1	x	✓	✓	54%	80%	26	x	2018-11-01	✓	2018-04-10	+ 2 days ago	✓	
10109		10109	iPhone	12,0	x	✓	✓	20%	81%	25	x	2018-10-01	✗	2018-04-10	+ 3 weeks ago	⚠	
10110		10110	iPhone	12,1,1	x	✓	✓	71%	81%	25	x	2018-10-01	✓	2018-04-10	+ 2 days ago	✓	
10111		10111	iPhone	12,1	x	✓	✓	71%	82%	20	x	2018-11-01	✓	2018-04-10	+ 3 days ago	✓	
10112		10112	iPhone	12,1,4	x	✓	✓	21%	88%	26	x	2018-10-01	✓	2018-04-10	21 hours ago	✓	
10113		10113	iPhone	12,1	x	✓	✓	51%	81%	20	x	2018-11-01	✓	2018-04-10	+ 4 days ago	✓	
10114		10114	iPhone	12,0	x	✓	✓	50%	81%	20	x	2018-11-01	✓	2018-04-10	+ 4 days ago	✓	
10115		10115	iPhone	12,1,1	x	✓	✓	20%	88%	27	x	2018-10-01	✓	2018-04-10	1 day ago	✓	



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裝置管理
確保裝置上的公司資料
安全無虞



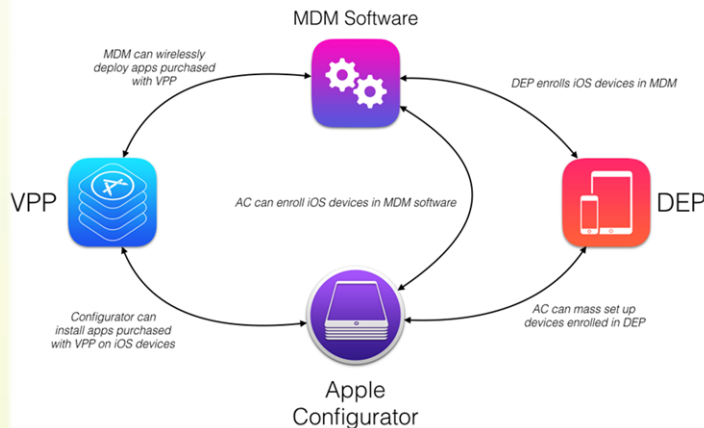
BYOD implementation

8) Technical issues

- ★ Device Enrollment Program (DEP)
- ★ Volume Purchase Program (VPP)
- ★ Evaluation...



How MDM, VPP, DEP, and Apple Configurator work together.



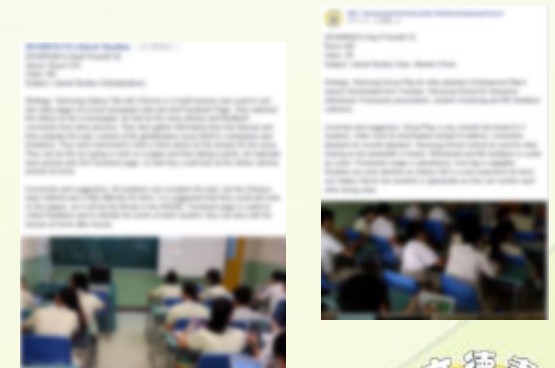
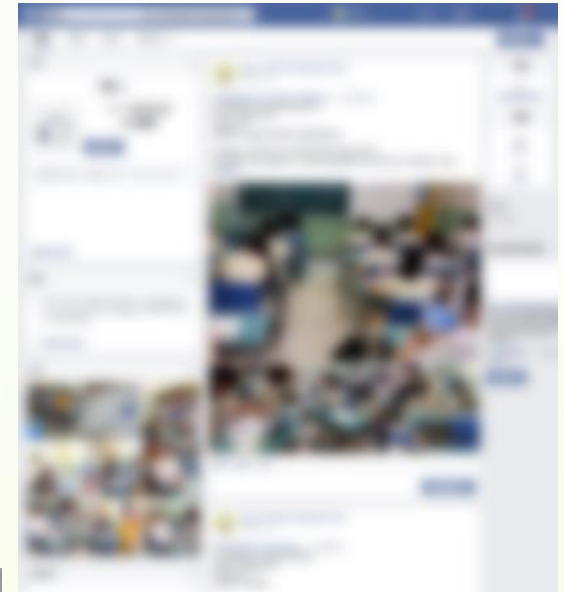
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BYOD implementation

9) BYOD e-learning exemplars

★ Classroom learning



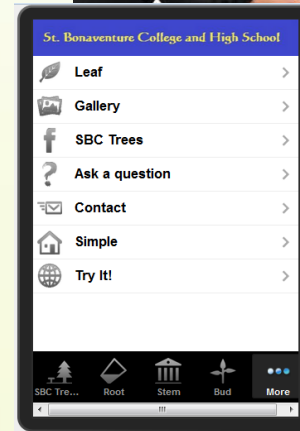
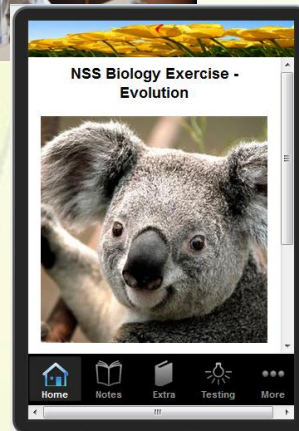
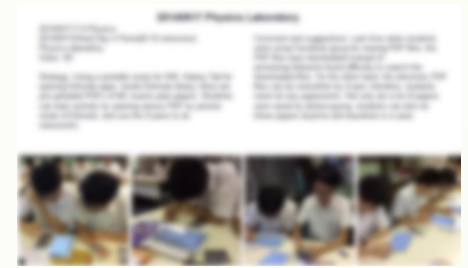
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BYOD implementation

9) BYOD e-learning exemplars

★ Scientific Experiments



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BYOD implementation

9) BYOD e-learning exemplars

★ Field trips and site visits



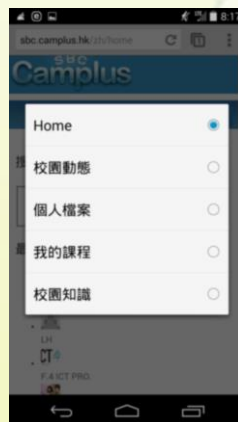
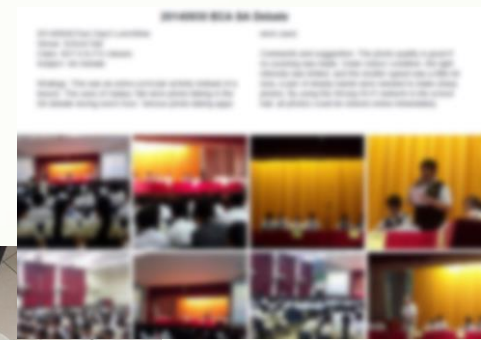
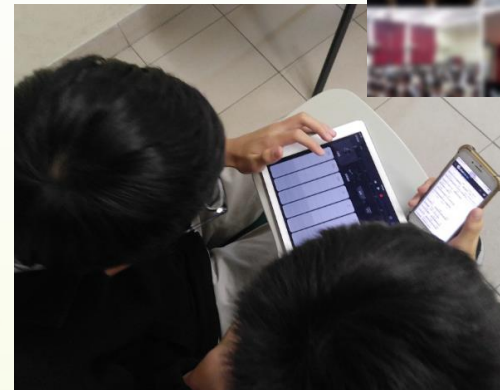
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BYOD implementation

9) BYOD e-learning exemplars

★ Life-wide learning activity



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BYOD implementation

9) BYOD e-learning exemplars

★ Large-scale school events



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Inspirations

Don't blame the ITC

Flawless is priceless

Lack of trust and support is the greatest barrier

Education is not a race

Trust is the must: respect,
responsibility and relaxation



持續學習
循序漸進
專業發展
關顧家長
資訊素養

No+\$=Yes

Prevention
is better
than
cure



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謝謝各位



聯絡：

聖文德書院

- 林志成老師 cslam@sbc.edu.hk
- 電話：2321 7324



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