Strategy, Progress and Solution on BYOD (Secondary)

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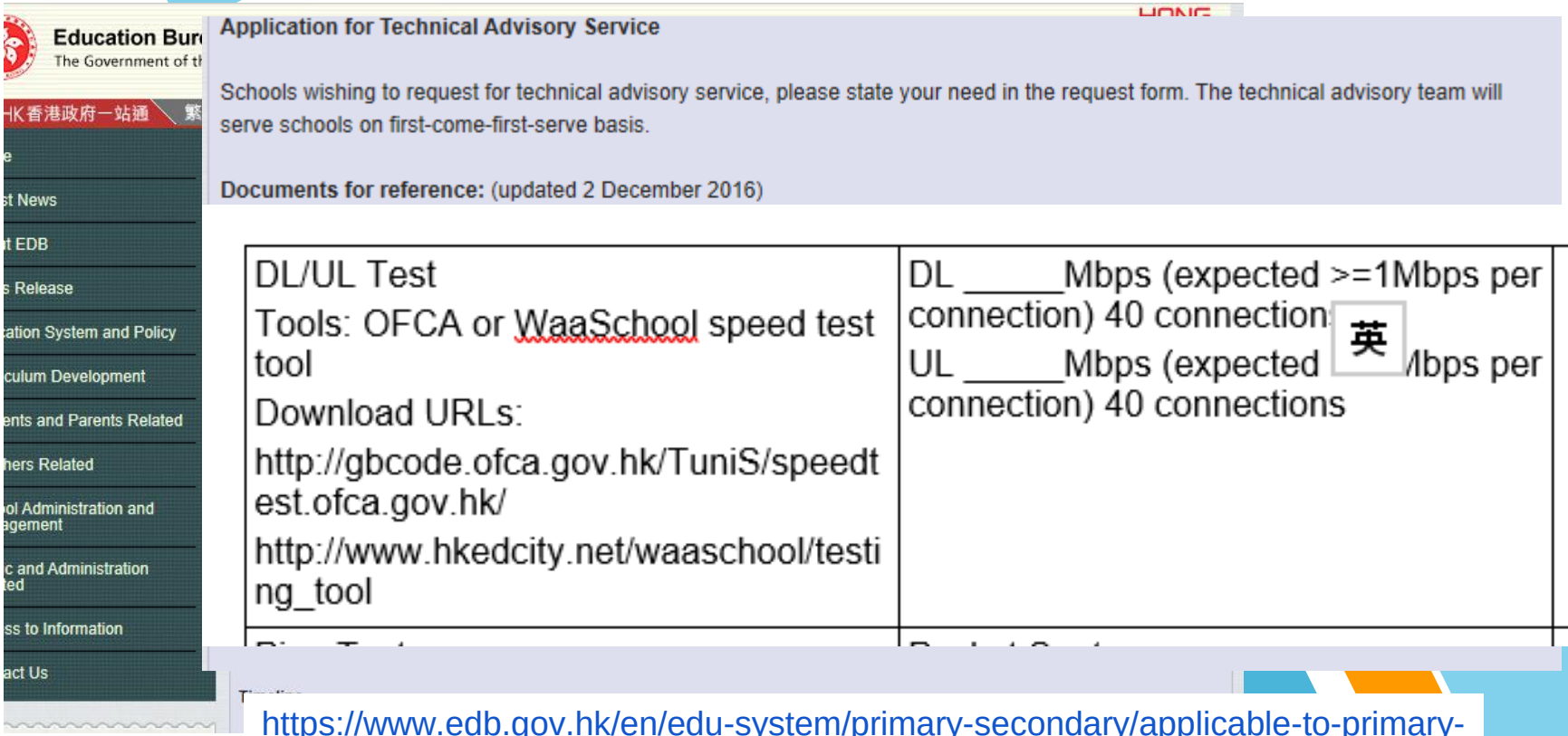
- Ready to “Go“
- e-Learning Goals
- School Practice
- Reference

Technical specification of Wi-Fi services



https://www.edb.gov.hk/en/edu-system/primary-secondary/applicable-to-primary-secondary/it-in-edu/Wifi900/TechnicalAdvisory.html

Questions

- How many devices are connected in school?
- Number of mobile device in school?
- Planned number of BYOD class?

Before BYOD:

- Infrastructure ~ Wi-Fi、Broadband、Security
  - Number of room running e-Learning
    - Staff Room、General office
  - Bandwidth
  - Information security
  - Regular UAT

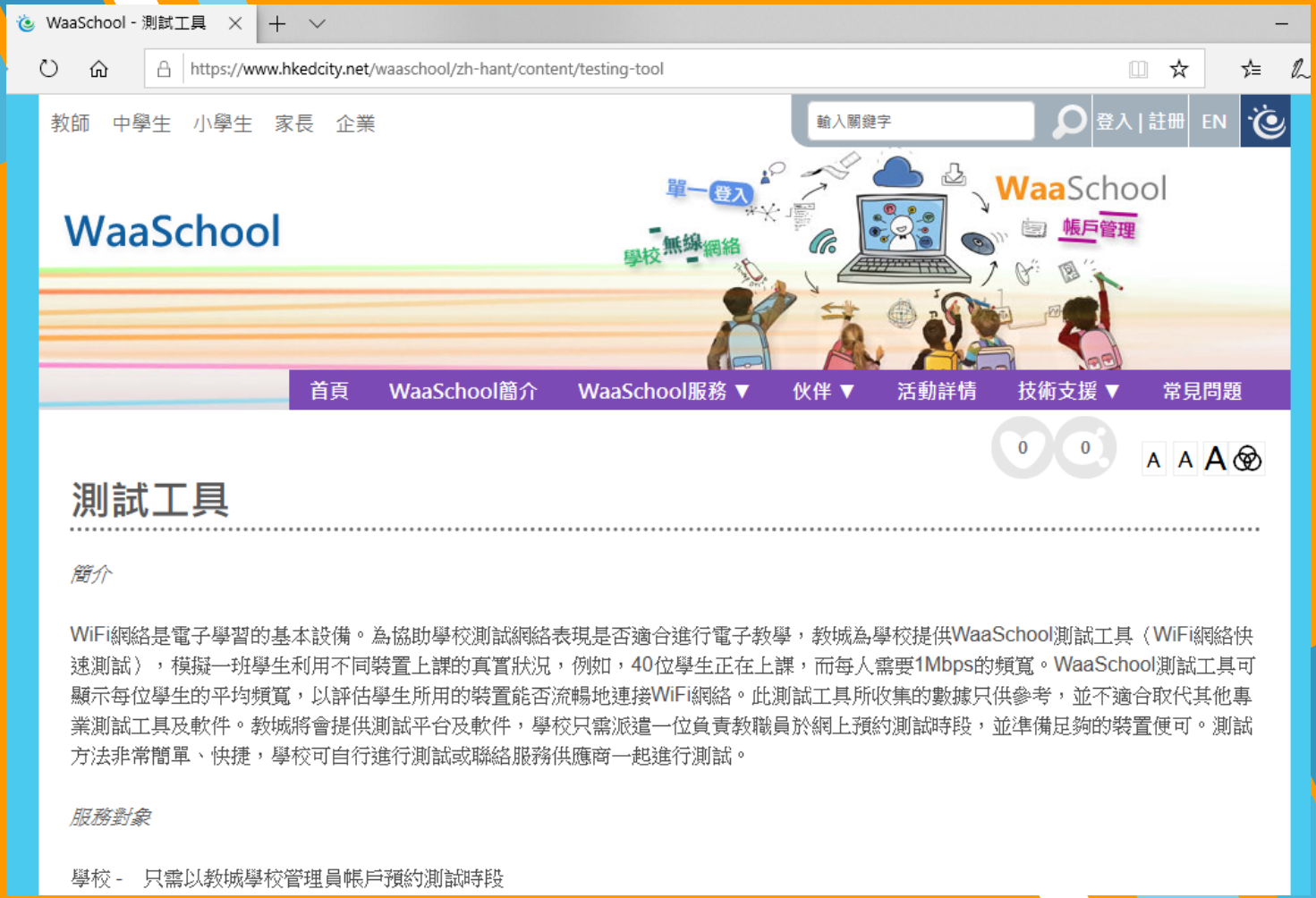
Estimate data rate in school

1 Class

- 40 devices x 1Mbps = 40Mbps

1 Form

- 3 classes x 40Mbps= 120Mbps



https://www.hkedcity.net/waaschool/zh-hant/content/testing-tool

How to...

Service Time

Date: Mon - Sat (except public holidays)
Time: 8am - 10pm
Testing Session: Each session is about 2 hours

Notes to Using Testing Tool

Make Reser[illegible]on

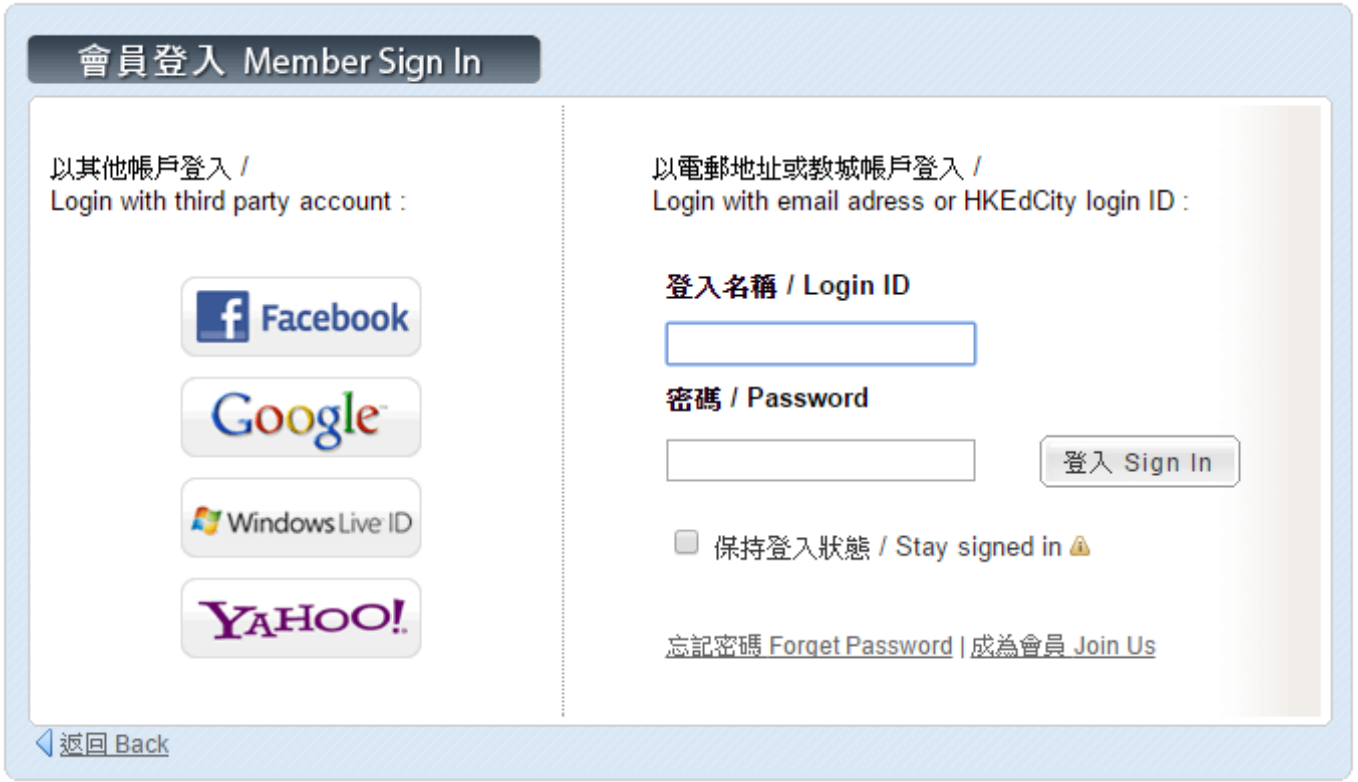
- Schools can r[illegible]e **up to 3 sessions** in 3 months shown in the online system

1. Log in to Booking Portal with School Administrator Account
2. Select testing session(s), click 'Confirm'
3. Confirmation email will be sent upon successful reservation. You may also check the details in 'My Booking' in Booking Portal

Reserve Now

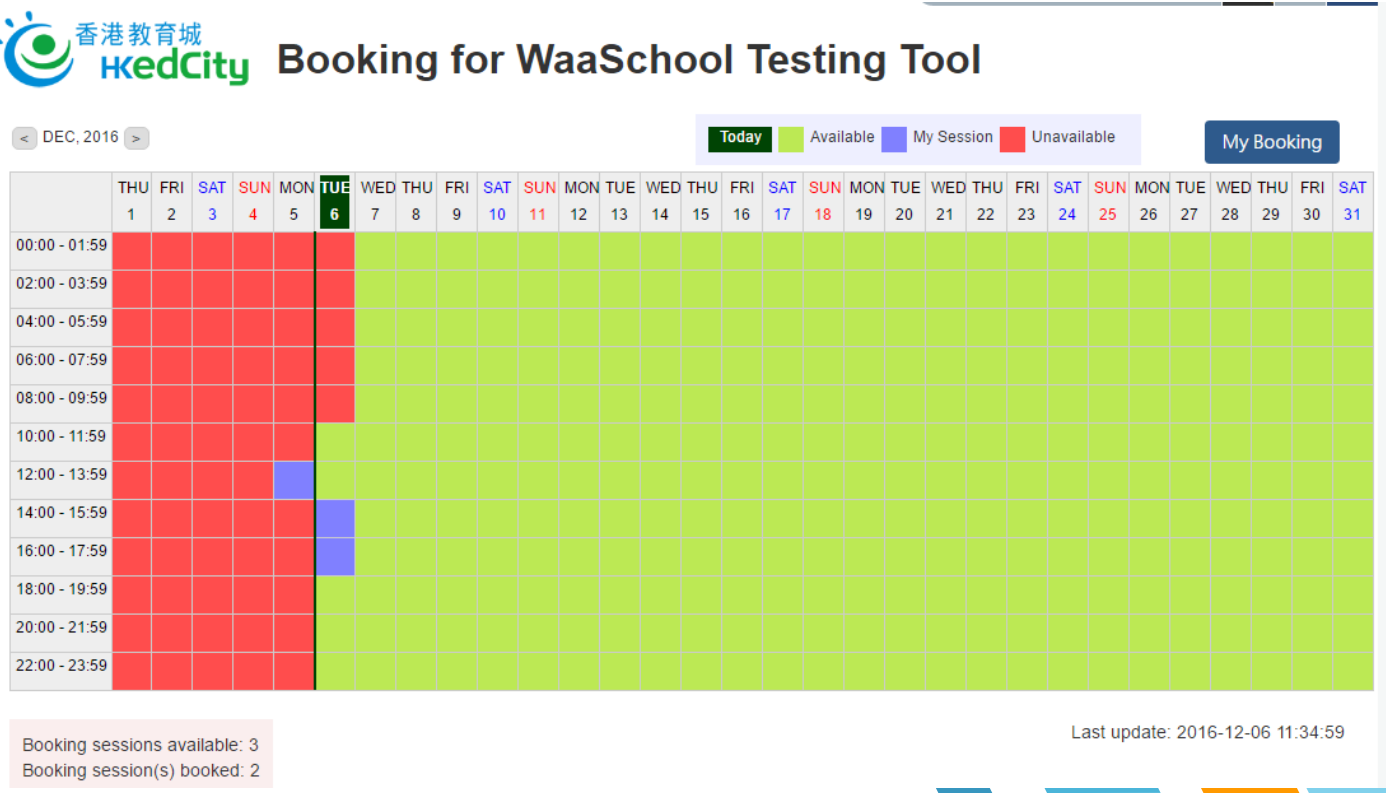
How to…

» Login using School HkedCity Admin Account

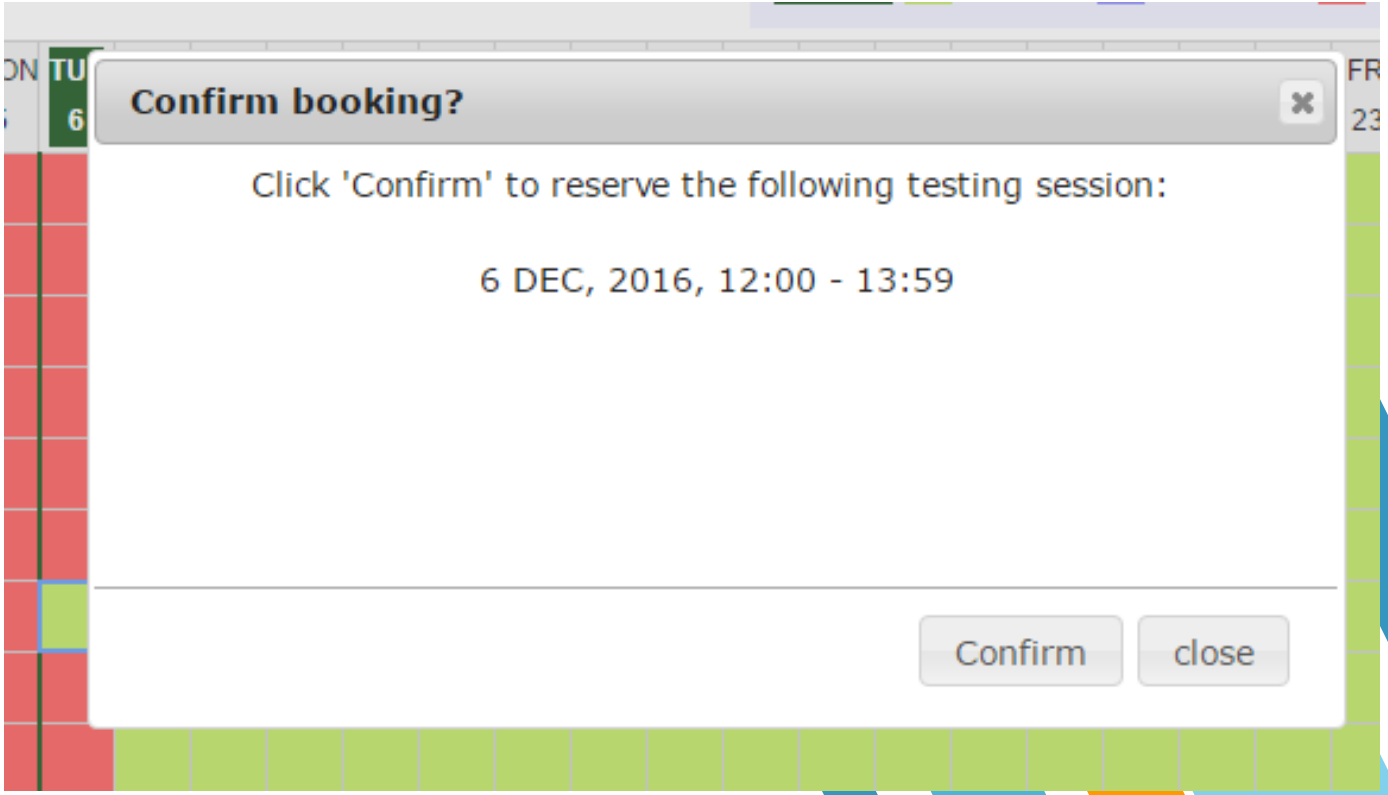


How to…

» Login using School HkedCity Admin Account

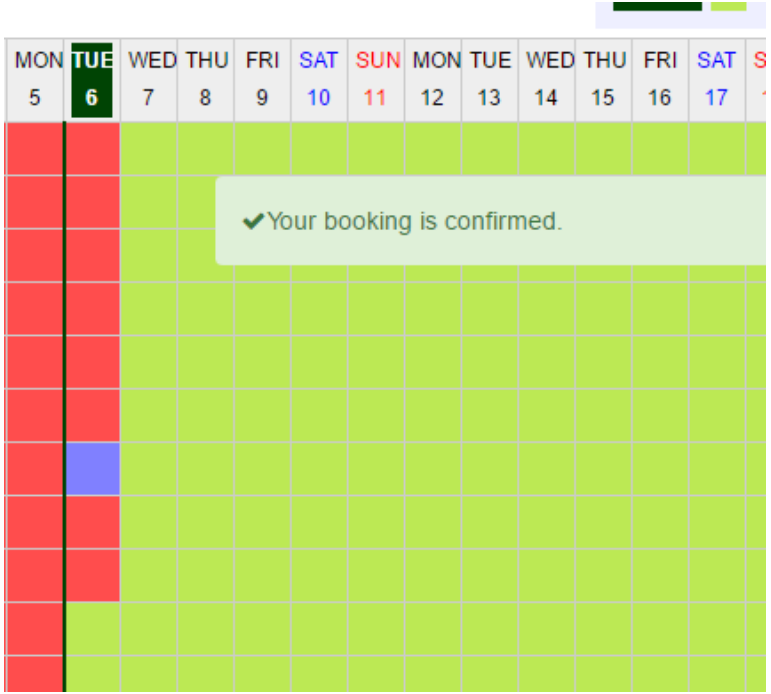


How to...


ON
TU
6
FR
23
Confirm booking?
Click 'Confirm' to reserve the following testing session:
6 DEC, 2016, 12:00 - 13:59
Confirm
close

How to…

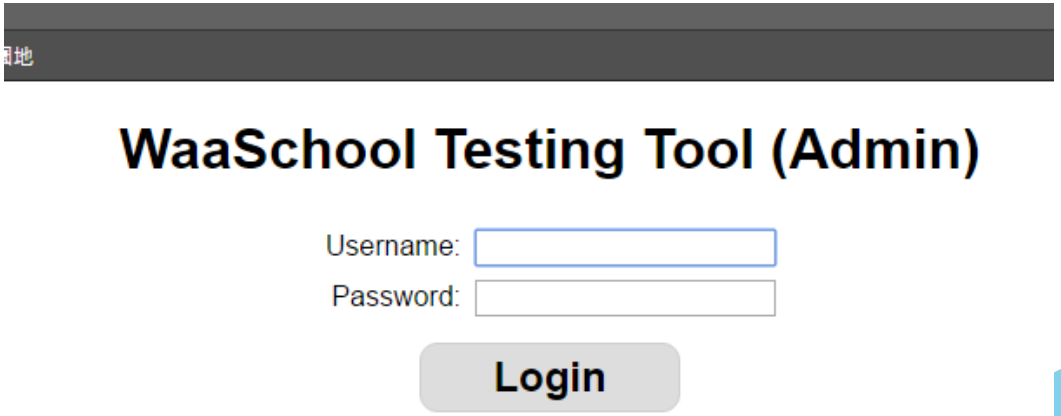
- Timeslot(s) selected is confirmed



Start Wi-Fi Test

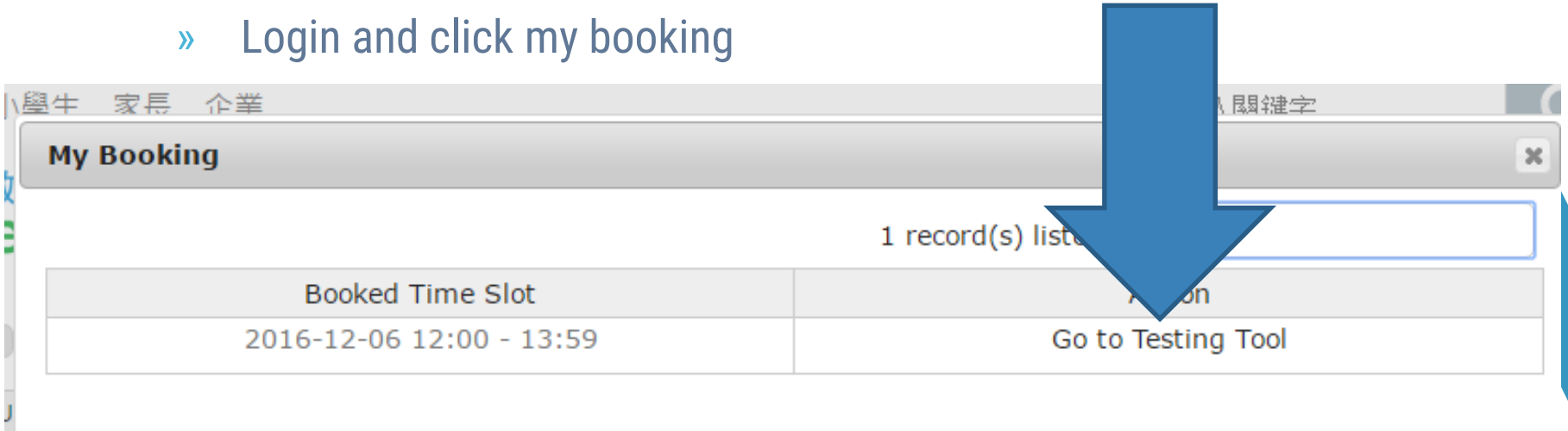
Test Wi-Fi

» Using HkedCity Admin Account to login again



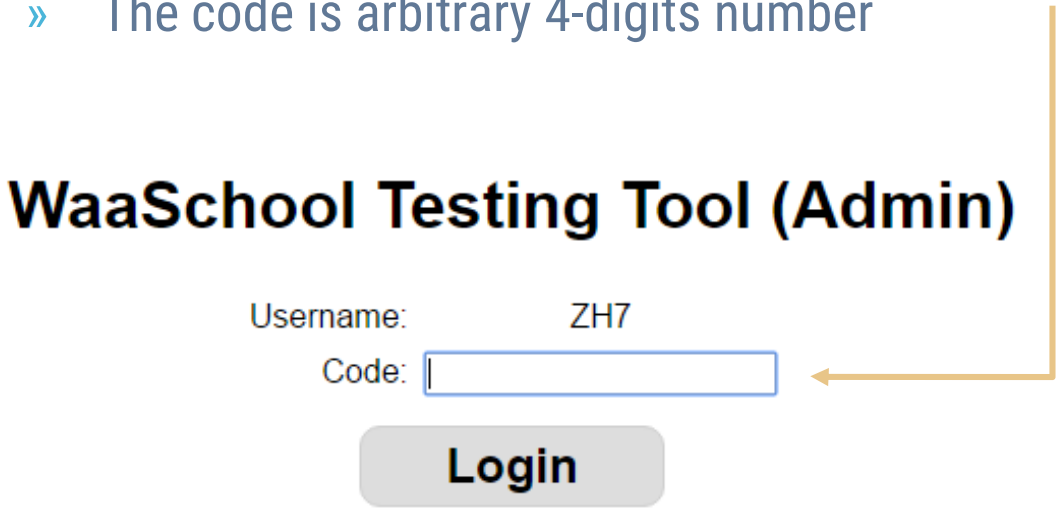
Test Wi-Fi

- Login and click my booking



Test Wi-Fi

» The code is arbitrary 4-digits number



Test Wi-Fi

Admin Panel | Report

WaaSchool Testing Tool

Stop Test | Logout

Session End Time: 2016-12-06 11:59:00
Active client(s): (Refresh every 2 seconds)

#	Code	IP Address	Action	Last Access Date
1	1234	218.189.211.186	EXECUTING Upload 3Mbps for 60second(s)	2016-12-06 11:40:59
2	1234	218.189.211.186	EXECUTING Upload 3Mbps for 60second(s)	2016-12-06 11:40:59

http://104.155.196.38/SMC/1234

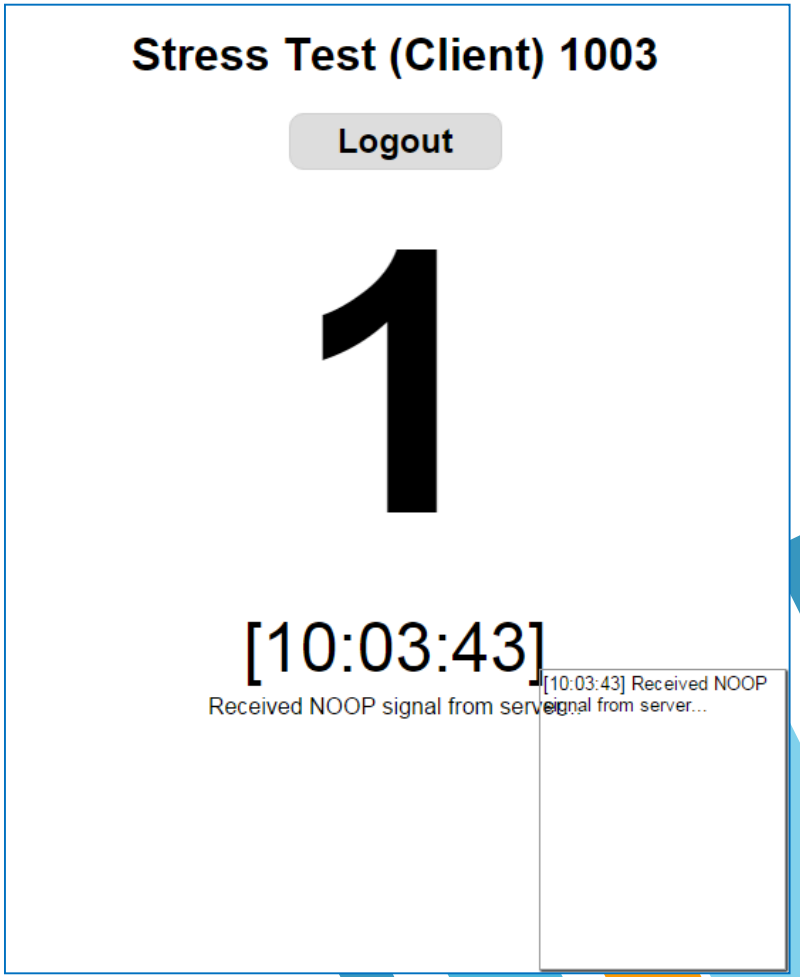
Speed Test

Speed: 3 Mbps (-1 for unlimited)
Duration: 60 second(s)
Download | Upload

Movie / YouTube

Link: https://www.youtube.com/embed/4RDMx
Play

Test Wi-Fi

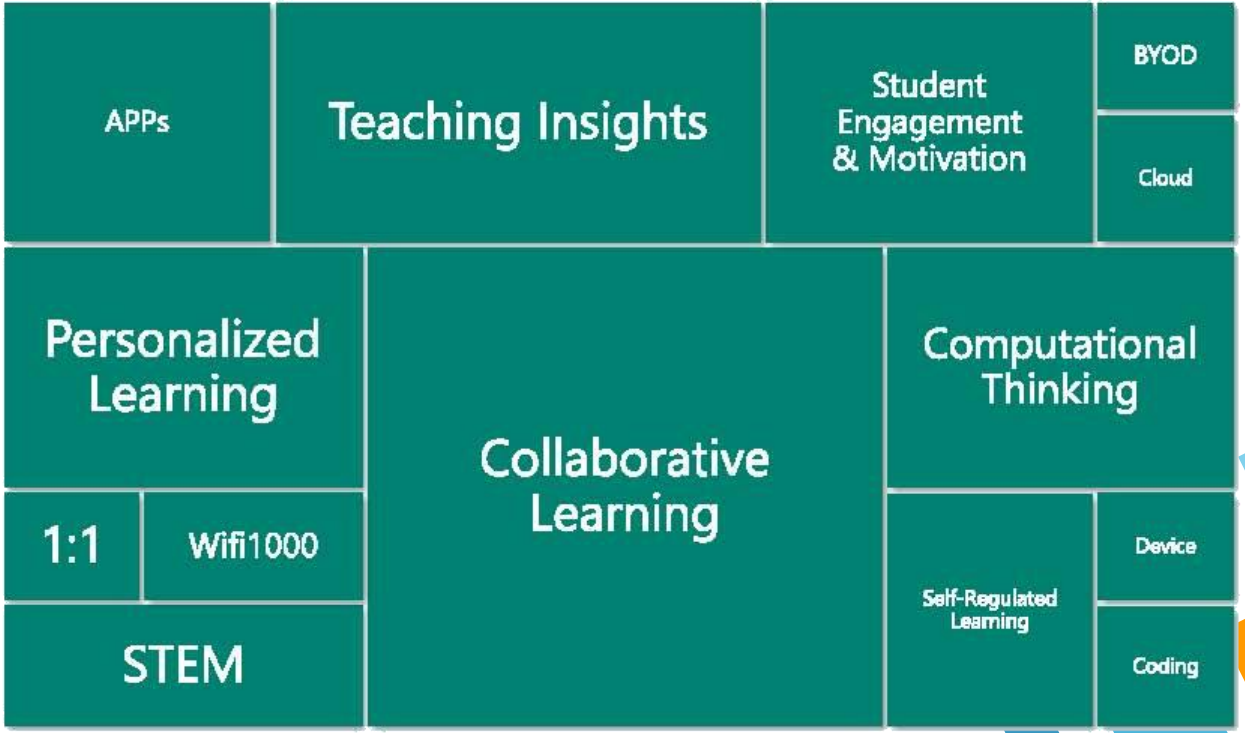

Stress Test (Client) 1003
Logout
1
[10:03:43]
Received NOOP signal from server...
[10:03:43] Received NOOP signal from server...

Why promoting e-Learning?

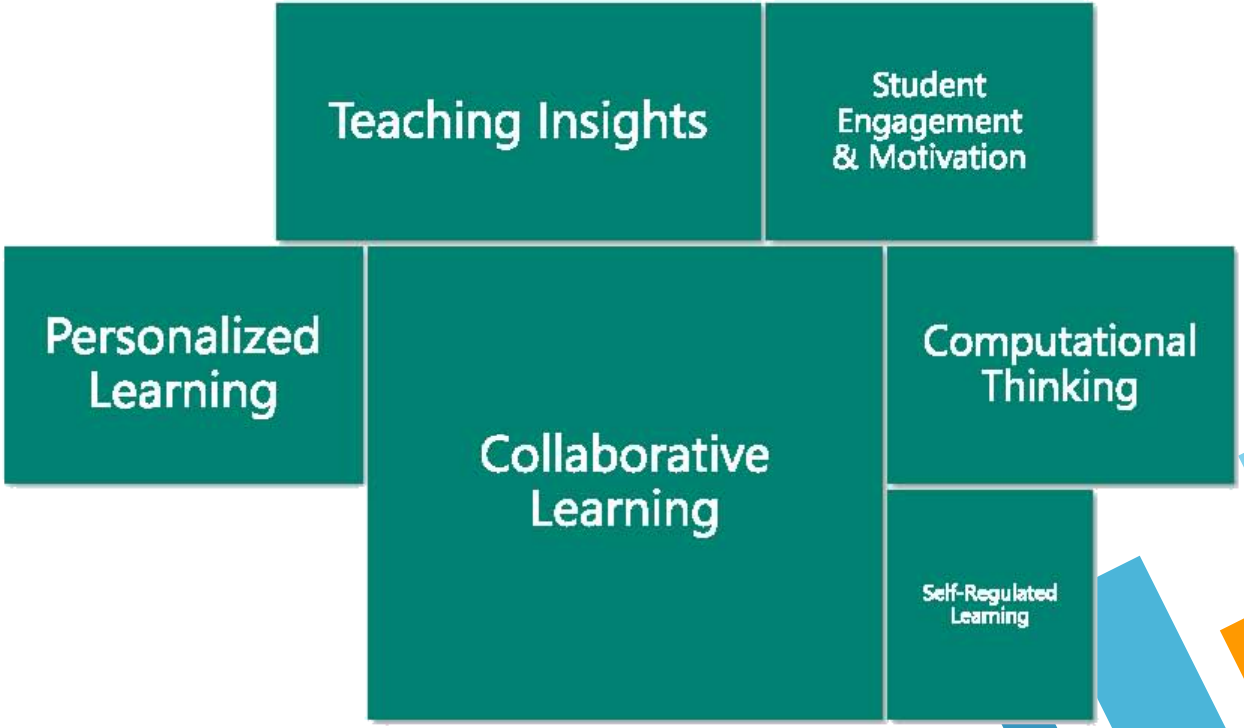
Focus on Promoting e-Learning

- Device selection?
- Learning Focus?

eLearning: Back to Basics



eLearning: Back to Basics



eLearning: Back to Basics

Teaching Insights	Personalized Learning	Collaborative Learning	Self-Regulated Learning	Computational Thinking	Student Engagement & Motivation

To enhance students' motivation and interest in learning

To increase the interactions with peers and teachers

To improve generic skills and promote assessment for learning

Starting from BASIC!!!

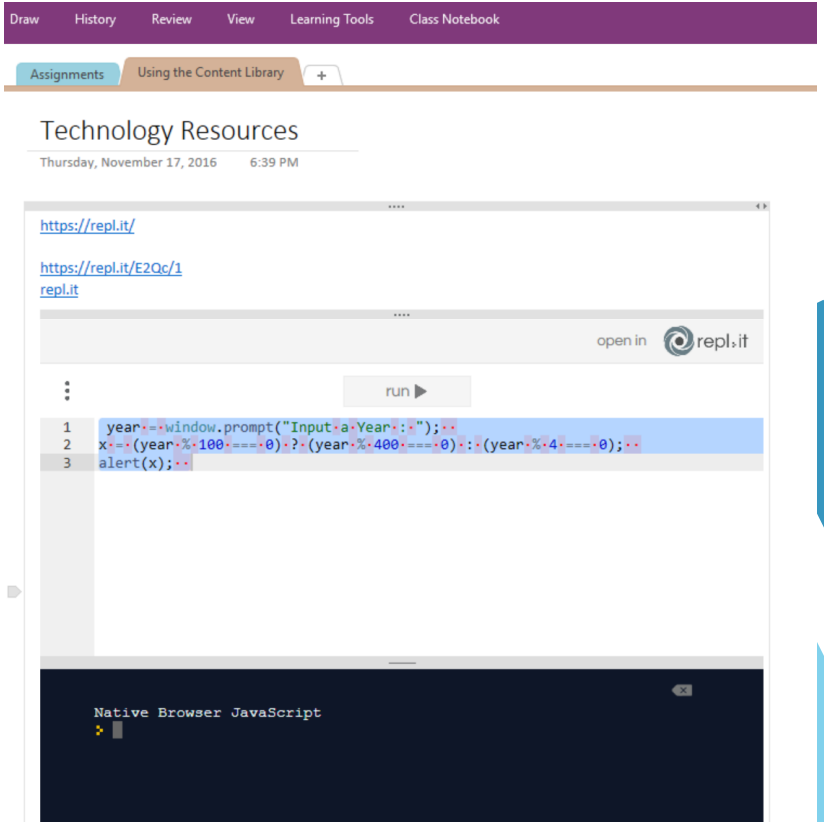
Promoting Personalized and collaborative learning environment

- Use of Office 365 to run collaborative activities with share folders, common notebook
- During PBL, students research reference could be shared on their common notebook and track their progress
- Common notebook will be used as individual working space, teacher notes and common working area

Coding on digital notebook

- Support various coding like Java, C, JavaScript, HTML, …
- Show live code
- Run code in OneNote

online coding platform
http://repl.it



How to kick-off BYOD program in school?

Experience Sharing

Pilot Stage at 2014 Feb

- In Feb 2014, define UAP on BYOD program.
- One ICT class has taken part in pilot scheme.

Students must obey the following rules:

- The school will provide a personal Wi-Fi account to each student. The account should not be shared with others.
- After getting permission from the subject teacher, students are allowed to use their own laptops/tablets in that particular lesson;
- Students may also use their own device(s) in the library or self-study center during lunch time or after school;

Students must obey the following rules:

- Apart from the above situations, the power of the laptop/tablet must be in hibernation, stand-by or switched off mode;
- Laptops/tablets should be used for learning activities only.
- The screen size of the laptops/tablets must be greater than or equal to 7 inches.

Students must obey the following rules:

- Students should take care of their own personal properties in school; if the laptops/tablets brought to the school are lost, stolen or damaged, the school should not be held responsible in any way. Parents should pay particular attention to this.
- Students should ensure that their laptops/tablets are fully charged before brought to the school to avoid inconvenience and potential dangers.

Questions

- How to manage device?
- Wi-Fi support?
- Power?
- Security?

Support on program

Our practices:

- Free Web platform: Office 365, OneNote, Teams
- Provide Office 365 download
- Provide school Wi-Fi
- Use of Remote App instead of app installation on student devices

BYOD Kick off tips

- Define device specification Screen Size, Battery life
- Work with Discipline team on location of using laptop
- Draft teaching and learning strategy on e-Learning
- Host parent evening to share program details of BYOD [Invite student to share]
- Consideration of new app adoption

BYOD Kick off tips

Do ✓

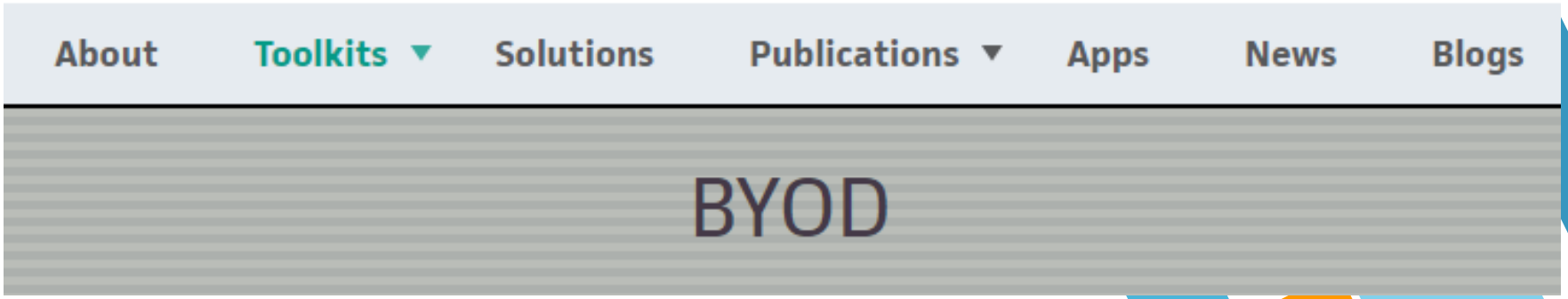
- Draft UAP
- Duration of screen time in class

Don't ✗

- Using too much IT tools on single activities
- Apply one learning approach on learning activity

Reference

https://www.k12blueprint.com/toolkits/byod



All BYOD toolkit files

A zip file containing all of the downloadable BYOD toolkit resources

▼ ZIP

Getting Started with BYOD

Today's digital natives access information that is live and on-demand through mobile devices

▼ PDF

Planning and Implementation Framework

Developing a successful BYOD program requires extensive planning, communication, and ongoing evaluation

▼ PDF

https://www.k12blueprint.com/toolkits/byod

BYOD Implementation Challenges

Although there are many benefits to implementing a BYOD program, it is not without its challenges

▼ PDF

BYOD Presentation for District Administrators

Introduce district administrators to the benefits and challenges of BYOD.

▼ PPTX

BYOD Presentation for Educators

Introduce educators to the benefits and challenges of BYOD

▼ PPTX

District Readiness Checklist

Determine your school or district's readiness for BYOD

▼ PDF

Teacher Readiness Checklist

Evaluate your readiness before opening your classroom to student-owned devices

▼ PDF

STEP 8 Consider Devices

Mobile Devices

Although mobile devices offer many advantages, such as anytime—anywhere learning, there are times when students will require a "real" computer. Many software programs require a computer with a file structure and mouse input, even if they offer a companion mobile app to supplement the software program. Not all software features and file types are supported on mobile devices.

- What will students use when they require a keyboard?
- How will students use software programs that require a "real" computer?
- What will students use when they need a larger screen?
- How will students access files that are not supported on their mobile device?

School-Owned Devices

Schools that implement BYOD programs must also provide mobile technology solutions for students who do not have their own device, and they must support the mix of the school's technology with the students' own devices. An effective program budget allows for purchasing or leasing school-owned devices, including costs for upgrading, repairing, or replacing the devices regularly. Some successful BYOD models report generous sharing of devices among students as well as donation programs for new and used equipment.

Device Recommendations and Purchasing Guidelines

When it comes to purchasing mobile devices, parents and students will benefit from a general set of recommendations and considerations. An effective BYOD program will actively try to create an environment that will work with any device. However, it is still useful to post a Device Consideration Letter.

Voice from different school

Special thanks:
St. Stephen College
Gavin Choi

https://padlet.com/cwk2/z2kcf9aqk2ab