



Personal Learning Device (PLD) Initiative

Briefing for Parents

A PRESENTATION BY
MINISTRY OF EDUCATION, SINGAPORE



The National Digital Literacy Programme and the PLD Initiative

An Overview

The National Digital Literacy Programme (NDLP)

1. The NDLP was launched in March 2020 to **make digital learning inclusive** by **equipping students with the digital skills** to be future-ready.
2. Under the NDLP, every secondary school student will **own a school-prescribed personal learning device (PLD)**. Students may use funds from their Edusave Account to pay for the PLD.
3. This MOE PLD initiative is also known as the Personal Digital Learning Programme (PDLP).

Intended Outcomes of the PLD Initiative

The use of the PLD for teaching and learning aims to:



Support the Development of Digital Literacy



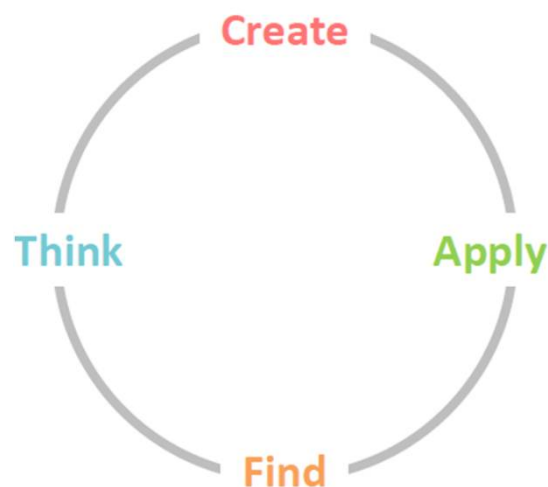
Support Self-Directed and Collaborative Learning



Enhance Teaching and Learning

The National Digital Literacy Programme (NDLP)

The 'Find, Think, Apply and Create' framework:



Find	Critically gather and evaluate information from, and use digital resources in a safe, secure, responsible and ethical manner
Think	Interpret and analyse data, and solve problems
Apply	Use software and devices to facilitate the use of knowledge and skills in new contexts; keep up with technological developments
Create	Produce content and artefacts, and engage and collaborate with others digitally

OVERVIEW OF NDLP AND PLD INITIATIVE

Students' Experiences



<https://www.youtube.com/watch?app=desktop&v=atVkNBXMVnY>

Learning with a PLD

Swiss Cottage Secondary School

How will your child/ward use the PLD?

At **Swiss Cottage Secondary School**, your child/ward will be using the PLDs for...

- cyber wellness education
- Apps to support learning activities during lessons and outside the classroom
- Digital and online assignments (SLS, Google Classroom)
- Self-directed Learning
- Collaborative work/projects with peers
- Note-taking using Good Notes 5
- Digital repository of learning resources
- Digital literacy education
- Executive functioning and productivity device, be it academic, personal, social, CCA, VIA
- Home-Based Learning
- and so on

Supporting Students in the Safe and Effective Use of the Devices

Supporting Students in the Safe and Effective Use of the Devices

Amidst cyber wellness concerns such as harmful online content, distraction from learning and excessive screen time, the school has measures in place to enable a safer digital environment for learning with the use of PLDs, e.g.

- Classroom management and routines
- Educating students on Cyber Wellness
- Partnering parents/guardians to ensure that students are well-supported in their use of technology for learning
- Device Management Application (DMA)

Classroom Management and Routines

- School mobile device policy
- Classroom routines
- AUP document

Cyber Wellness Education

Educating students on Cyber Wellness

MOE has made significant changes to the Character and Citizenship Education. Cyber Wellness lessons feature significantly in the CCE2021 lessons.

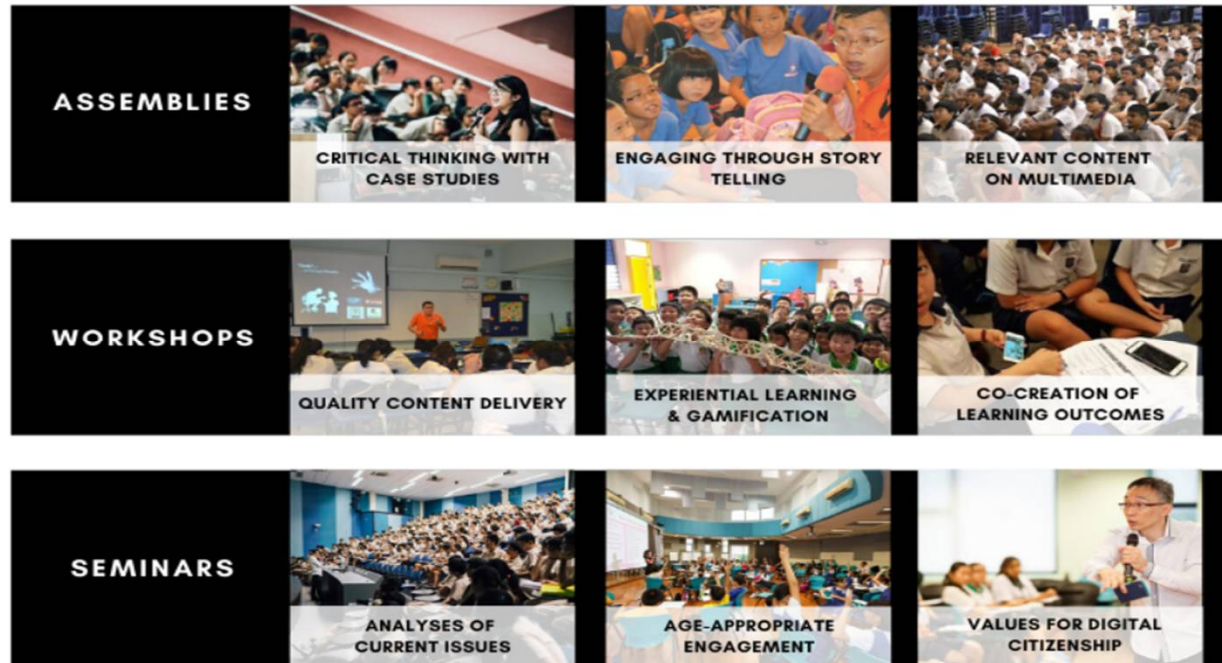
Topics covered in the Cyber Wellness lessons include:

- Cyber Use
- Cyber Identity
- Cyber Relationships
- Cyber Citizenship
- Cyber Ethics

SAFE AND EFFECTIVE USE OF DEVICES

Cyber Wellness Education

In addition to Cyber Wellness Education lessons, through various programmes in school, students will continue to learn to be **respectful, safe, and responsible users of technology**.



Parents'/Guardians' Role

- We would like to partner parents/guardians to ensure that students are well supported in their use of technology for learning.
- As parents/guardians, you can help in the following ways:
 - Model good digital habits for your child/ward e.g. parents/guardians not using devices during family meals.
 - Know your child/ward well, and have conversations with your child/ward about safe and responsible use of technology.
 - Set ground rules for internet/device usage.
 - Guide your child/ward to use productivity tools using his/her PLD, to organise information and simplify tasks for efficiency.

SAFE AND EFFECTIVE USE OF DEVICES

Parents' Voices: In Conversation on Students' Use of PLDs for Learning



<https://www.youtube.com/watch?app=desktop&v=6oIAtbruVf4&feature=youtu.be>

Role of the DMA in Providing a Safer Digital Environment for Learning

Device Management Application Installation

- Your child's/ward's PLD will be installed with a Device Management Application (DMA) to provide a safer digital environment for learning.
- Installation of the DMA will be performed after the collection of the device. Students will be guided on the installation.
- This applies to both devices purchased through the school and pre-existing student-owned devices.
- The DMA will be **funded by MOE** and will be **uninstalled** from the device **when your child/ward graduates/leaves the school**.

Components of DMA

The Device Management Application (DMA) software consists of the following three components:

- **Mobile Device Management Service**
- **Classroom Management Service**
- **Usage Management Service**

The DMA for iPads is known as Mobile Guardian (MG).

DMA Components and their Functions

1. Mobile Device Management Service (MDM)¹

This facilitates the **updating and management of the PLDs, protects PLDs from malicious software, and protects students from objectionable internet content, or content that may not be conducive to teaching and learning during school hours.**

- Facilitates automatic installation of apps required for teaching and learning
- Filters objectionable content or content that may not be conducive to teaching and learning (e.g. social media, pornography, gambling, or websites containing extremist content)
- Protects your child's/ward's PLD from security vulnerabilities through the automatic updating and patching of apps and device Operating System (OS)

¹ MDM is a **core service** that is required to deliver Classroom Management Service and Usage Management Service (which includes the Parental Control app).

DMA Components and their Functions

2. Classroom Management Service (CMS)

This enables teachers to **manage the students' use of the PLD** during lesson time to improve classroom management and support effective teaching and learning. Teachers will only monitor students' activities during lessons.

During lessons, teachers will be able to:

- Manage and control devices (e.g. using the "Eyes Up" function)
- Launch specific applications and/or websites for teaching and learning on students' devices
- Facilitate sharing of content
- Monitor students' usage and activities during lessons (e.g. screen sharing, monitoring students' browsing history)

DMA Components and their Functions

3. Usage Management Service (UMS)

This enables the school and/or parents/guardians to **better supervise and set helpful limits for students' use of PLDs after school.**

- Screen time control ensures that students do not use the PLDs excessively
- School and/or parents/guardian control installation of applications to ensure that the device is used optimally for teaching and learning
- Safe search and additional web content filtering protects students from harmful content
- Parents/Guardian can monitor usage and activities by students

Types and Purpose of Data Collected by DMA



Data for DMA
Administrative Purposes



Data for Application
Management



Data for Web Content
Filtering



Data for Sharing Students'
Screen



Data for DMA Administrative Purposes

Essential for DMA and lesson set up and management of devices through DMA

Examples:

- Students' and parents'/guardians' information (Name, school name, email addresses, and class)
- Apps installed in your child's/ward's PLD
- Device and hardware information (e.g. device model, storage space)

Accessible by:

- Teachers
- Parents/Guardians (for activities after school hours)
- DMA Administrators in school and at MOE
- DMA Vendors



Data for Web Content Filtering

Filtering of harmful content to ensure students' cyber safety

Examples:

- URLs accessed on the PLDs (*Actions performed on websites are **NOT** captured*)
- Date and time of the access
- Student profile (Name, School name)

Accessible by:

- Teachers (for activities during lessons)
- Parents/Guardians (for activities after school hours)
- DMA Administrators in school and at MOE
- DMA Vendors



Data for Application Management

To ensure that the installed apps are updated and functioning properly

Examples:

- Installed apps and programs
- Date and time that the apps and programs were last updated
- Application error data

Accessible by:

- Teachers (for activities during lessons)
- Parents/Guardians (for activities after school hours)
- DMA Administrators in school and at MOE
- DMA Vendors



Data for Sharing Students' Screen

To allow teachers to check that students are on task, and address possible questions in class

Examples:

- Only the streaming of 'live' screen view (*The screen view will **NOT** be stored*)

Accessible by:

- Teachers during lessons only

Data Collected by the DMA

The DMA does **NOT** collect any of the following data:

- Login IDs and passwords entered into websites or into any applications
- Actions performed (e.g. posts, online comments, items added to a shopping cart, etc.) when visiting websites and using apps
- Documents and photos stored in the PLDs
- Webcam videos and microphone recordings
- PLD location

Data Collected and Access Rights

- All user data collected through the DMA will be stored in secure servers managed by appointed DMA Vendors with stringent access controls and audit trials implemented. The DMA solutions used are cloud-based Software-as-a-Service (SaaS) solutions and are trusted solutions that have been operating for many years. They have also been subject to regular security review and assessment by independent reviewers.
- MOE has assessed and concluded that the DMA solutions have sufficient security robustness to ensure data collected are properly stored and protected. MOE will also subject the DMA Vendors to regular audit on the security of the system based on tender requirements.

Data Collected and Access Rights

To prevent unauthorised access, DMA Administrators and DMA Vendors will be required to access their accounts using 2-factor authentication or the equivalent to ensure proper accountability for information access and other activities performed. There will be regular account reviews and audits for DMA Administrators' and DMA Vendors' accounts.

After School DMA Options

In-School DMA Settings (Default)

Schools will determine DMA settings for **in-school use**. As a default, these settings will continue to be in place after school as well:

- MOE and the school will set the level of web content filtering, including filtering out objectionable content or content that may not be conducive to teaching and learning (e.g. social media, pornography, gambling, or websites containing extremist content)
- Students will be able to use the device from 6.30 am to 11 pm daily
- The school will determine the apps and programs to be installed to support teaching and learning

Providing Parents/Guardians with Greater Choice for After-School PLD Use

- After School DMA Options

Default	Option A	Option B
In-school DMA settings will continue after school hours	Parents/Guardians can modify the DMA settings after school hours	Parents/Guardians can choose to disable DMA after school hours
For parents/guardians who want their child's/ward's use of the devices to be restricted only to teaching and learning, and prefer to leave it to the school to decide on DMA settings after school hours.	For parents/guardians who want more leeway over the use of the device, and prefer to take charge of the level of restrictions for their child's/ward's use of the device after school hours.	For parents/guardians who do not want their child's/ward's use of the device to be regulated by DMA after school.

- Having default school settings continue after school hours is the best option for parents/guardians who prefer not to, or do not feel ready to manage their child's/ward's device use on their own.
- Parents/guardians can request to change their choice of DMA settings at any time.

Deciding on the Choice of After-School DMA Option

Parents/guardians may wish to consider the following questions before deciding on the choice of after-school DMA option which is best for your child's/ward's learning.

1. Child's/ward's current device usage habits

- How much time does my child/ward spend on their device?
- How well is my child/ward able to regulate their device usage on their own?
- Does my child/ward get easily distracted while doing online learning?

2. Parents'/Guardians' involvement

- How confident and familiar am I with managing my child's/ward's cyber wellness?
- Are there existing routines and open conversations on the use of the Internet at home?
- Am I aware of how to prevent different types of cyber threats that my child/ward might face?



Signing up for After-School DMA Options

Parent Gateway message with regard to signing up will be sent in 1-2 weeks

- Sign-up form
- Instructions to signing up
- Details of the controls available for each option
- Sign-up deadline



Additional Resources for Parents

To support you in keeping your child/ward safe online, you may refer to these additional resources at the PDL@Swiss Cottage page (school website):

- Parent Handbooks (I) and (II) on Learning with a Personal Learning Device (shared by the school)
- Parent Kit on Cyber Wellness for Your Child (<https://go.gov.sg/moe-cyber-wellness>)
- Schoolbag article 'Keeping our teens safe online' (<https://www.schoolbag.edu.sg/story/keeping-our-teens-safe-online>)
- MOE Cyber Wellness Programme (<https://www.moe.gov.sg/programmes/cyber-wellness/>)
- Media Literacy Council (<https://go.gov.sg/better-internet-sg>)
- National Library's Learning & Information Literacy Resources (<https://sure.nlb.gov.sg/>)
- TOUCH Community Services (<https://help123.sg>)

Device and Funding Information

Swiss Cottage Secondary School's PLD



**Apple iPad 10.2" wifi
(9th Gen – 2021 release)**

The school will be using the Apple iPad for teaching and learning.

PLD Bundle (iPad Base Bundle)

Item	Unit Cost (\$)
Apple iPad 10.2" (Gen 9) 64 GB Wifi only (inclusive of one-year insurance and warranty)	458
Apple Pencil 1	105
Logitech Rugged Combo 3 casing with smart keyboard	116
Total cost	\$726.53 (Including GST)

Insurance and Warranty

Base Device Bundle

- ✓ 1-year insurance + 1-year warranty
- ✓ Allows for 1 repair or 1 replacement

Note:

Once insurance is claimed for a replacement device, the insurance coverage will cease and the replacement device will not be covered by insurance.



Insurance and Warranty

Insurance*	Warranty
<p>The device insurance coverage includes:</p> <p>Damage to or loss of device from the following which are non-manufacturer defects or internal mechanical faults:</p> <ul style="list-style-type: none"> a) Fire b) Lightning c) Power Surges d) Accidental e.g. water spillage, drop etc e) Theft due to forcible entry f) Robbery 	<p>The device warranty warrants that each device is free from defects in materials and workmanship under normal use during the warranty period.</p>

**The insurance coverage is only applicable to situations of damages and loss where the student has taken precautions to safeguard the device.*

Funding Support for Singapore Citizen (SC) Students

- For SC students who are on MOE Financial Assistance Scheme or whose family's monthly income meets the following criteria:

Gross Household Income (GHI) \leq \$2,750, or

Per Capita Income (PCI) \leq \$690

the school will subsidise 50% of device bundle cost or \$350, whichever is lower.

- The remaining amount will be payable from the students' Edusave account. If there is insufficient balance in the students' Edusave account for the remaining amount, school will provide additional subsidy so that the cash out-of-pocket (OOP) is \$0.

Funding Support for Singapore Citizen (SC) Students

- For SC students whose family's monthly income is:

$\$2,750 < \text{Gross Household Income (GHI)} \leq \$4,000$, or

$\$690 < \text{Per Capita Income (PCI)} \leq \$1,000$

the school will subsidise 30% of device bundle cost or \$200, whichever is lower.

- The remaining amount will be payable from the students' Edusave account. If there is insufficient balance in the students' Edusave account for the remaining amount, school will provide additional subsidy so that the cash out-of-pocket (OOP) is not more than \$50.

Funding Support for Singapore Citizen (SC) Students

- SC students whose family's monthly Gross Household Income (GHI) > \$4,000 or monthly Per Capita Income (PCI) > \$1,000, no subsidy will be provided. Parents/Guardians can use their child's/ward's Edusave or cash to defray the device bundle cost.

What's Next?

WHAT'S NEXT?

1) Purchase Form

2) Edusave Withdrawal Form (where applicable)

Time Frame	Activity for Parents/Guardians
By 12/01/2022 Wednesday	<p>Provide parental/guardian consent for purchase of PLD bundle and Edusave withdrawal via</p> <ul style="list-style-type: none">• Fill in and submit Form SG response at https://go.gov.sg/pdlpadmin (requires Singpass account)• Form SG can be referred to at school website (PDL@Swiss Cottage page) or PG message sent on 22/12/2021 <p>OR</p> <ul style="list-style-type: none">• Hardcopy of Purchase Form and Edusave Withdrawal Form obtainable from school's General Office• Request for PDF copy via School ICT Manager (giam_chin_leong@moe.edu.sg) and return submission via email
Early to mid March 2022	Collection and enrolment of devices by students in school

WHAT'S NEXT?

Collection and Enrolment of Devices

Your child/ward will be collecting his/her device in school **in early to Mid March 2022 (Roll-Out Day)**.

If you would like to verify the condition of the device during collection with your child/ward:

- You may arrange to collect the device **at the contractor's service / collection centre*** or appoint an adult proxy to do so.
- Your child/ward would need to bring the device to school and arrange for the school's IT department to install the DMA.

Please approach the school for further advice or clarification if you would like to make this arrangement.

* **Parents/Guardians (or adult proxy) will not be able to collect the PLD from the school.**

Matters concerning Roll-Out Day

- The following information will be shared with parents and students prior to Roll-out Day:
- Roll-Out date
- Roll-Out process (e.g. how to do physical check of iPad) & instructions
- Roll-Out Day – things to bring to school
- Post Roll-Out Day instructions e.g. keep the iPad packaging for 7 days, 7-day return policy for factory defects

Important Contacts / Helplines

To access / find out more about...	Contact / Helpline
This deck of PDLP briefing slides	PDLP@Swiss Cottage page at school website
Child/Ward's Edusave balance	6260 0777 (MOE)
Finance-related matters e.g. financial assistance	scss@moe.edu.sg or call 6563 7173 (General Office)
Email copy of Purchase Form and Edusave Withdrawal	giam_chin_leong@schools.gov.sg (School ICT Manager)
Administration-related matters	wong_wai_kiong@schools.gov.sg (HOD Tfl) giam_chin_leong@moe.edu.sg (ICT Manager)
Technical-related matters	wong_wai_kiong@schools.gov.sg (HOD Tfl) g-ncs3304sde@ncs.com.sg (Desktop Engineer)

**Thank you and we look forward to partnering
you in our students' digital literacy journey!**



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