

The National Digital Literacy Programme





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 literacies 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.



Intended Outcomes of a Personalised Learning Environment

The use of the Personal Learning Device for teaching and learning aims to:



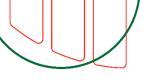
Support the Development of Digital Literacies





Enhance Teaching and Learning



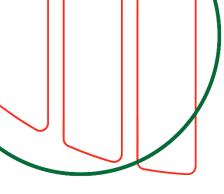


Students' Experiences



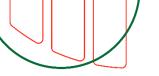






Personal Learning Device (PLD) Initiative





Learning with a PLD: Kranji Secondary School



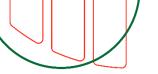


How will your child/ward use the Personal Learning Devices?

Your child will be using the device for...

- in class and out-of-class learning. This is to promote active learning and greater personalisation. In class, the devices will be used to support learning of the curriculum subjects independently or collaboratively. Beyond the classroom, students will be able to use the device for home-based learning. Students can review past lessons, access digital resources on the Singapore Student Learning Space (SLS) platform and other digital platforms to enhance their learning, or explore topics of their own personal interests using the device. They can also make use of digital tools such as calendaring and notetaking applications to enhance their personal productivity.
- alternative assessments/ authentic learning tasks that require research, digital creation, and collaborative learning
- ICT training courses
- Interdisciplinary project based learning





Supporting Students in the Safe and Effective Use of the Devices





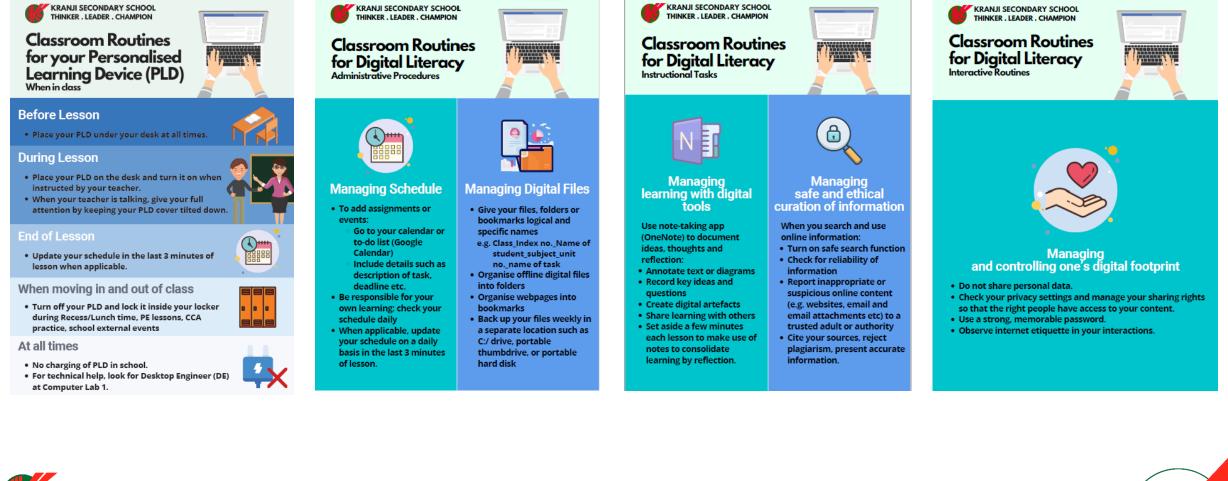
Supporting Students in the Responsible Use of the Devices

The school has measures in place to enable a safer digital environment for learning with the use of PLDs, e.g.

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



Classroom Management and Routines





Cyber Wellness Education

Educating students on Cyber Wellness

- Students will learn to be respectful, safe and responsible users of technology, and be a positive peer influence, advocating for the good of the community online.
- They will:
- Embrace the affordances of technology while maintaining a balanced lifestyle between offline and online activities
- Be a safe and responsible user of technology and maintain a positive online presence
- Be responsible for personal well-being in the cyberspace



Cyber Wellness Education

- To equip students with these values and skills, the school implemented the following strategies, such as:
- Cyber Wellness education through discussions at CCE lessons, such as the Lesson Unit entitled "Doing What Is Right", as well as assembly talks
- Peer Support Leaders acting as Cyber Wellness ambassadors to look out for students' well-being in the online space
- Caring and enabling school culture, where teachers and allied staff support students in need



Safe and Effective Use of Devices

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, you can also play a part:
- Model good digital habits for your child.
- Know your child well, and have conversations with your child about safe and responsible use of technology.
- Set ground rules for use of internet and mobile devices.
- Navigate the internet together to understand their usage.



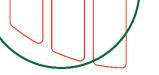


Safe and Effective Use of Devices

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







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





Digital 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**.



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)
- The school will determine the apps and programs to be installed to support teaching and learning



The school will provide parents/guardians with more information on exercising the 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
(7:00 am to 11:00 pm)	(4:00 pm to 11.00pm)	(4:00 pm to 7.00am)
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.



	Default (7:00 am to 11:00 pm)	Option A (4:00 pm to 11:00 p	om)	Option B (4:00 pm to 7:00 am)
Protecting students from objectionable content	MOE/school sets level of web content filtering	Parents/Guardians can apply additional content filtering	-	No content filtering
Reduce distractions from learning through control of applications	Parents/Guardians and students <u>unable</u> to install additional applications	Parents/Guardians and/or students can install applications after school hours, but these applications are disabled during school hours		
Limit screen time	School sets hours during which students are able to use the device online	Parents/Guardians N can modify the amount of screen time*	No cor	ntrol over screen time

*Screen time limits set by the school will override parents'/guardians' settings during school hours.



	Default (7:00 am to 11:00 pm)	Option A (4:00 pm to 11:00 pm)	Option B (4:00 pm to 7:00 am)
Parent/guardian account	Provided to allow monitoring of PLD activities after school hours		Not provided
Monitor students' cyber activities	Parents/Guardians can track their child's/ward's browser history after school hours		Parents/Guardians will <u>not</u> be able to monitor or control their child's/ward's use of the device through the DMA after school hours No data* will be collected during use of PLD after school hours

*Parents/Guardians and students on Option B will need to use non-Chrome browsers to avoid web browsing history tracking and web content filtering.



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?





Have a conversation with your child/ward to talk about which setting is best for your child's/ward's learning.

Data collected by 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
- PLD location
- Webcam videos and microphone recordings

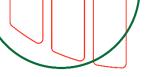


Additional Resources for Parents

To support you in keeping your child/ward safe online, you may refer to these additional resources:

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





Device Information





Device Information

Kranji Secondary School's Personal Learning Device



Acer TravelMate Spin TMB311R (Enhanced)

(1.47kg, 128 GB Storage, 11.6" screen)

Device Category	Acer TravelMate Spin TMB311R (Enhanced)
CPU	Processor upgrade to Pentium
	QuadCore N6000
RAM	8GB
Storage	128GB eMMC
Display	11.6" touch screen
Weight	1.47kg
Add-ons	Active Stylus Pen



Device Information

Kranji Secondary School's Personal Learning Device



Acer TravelMate Spin TMB311R (Enhanced)

(1.47kg, 128 GB Storage, 11.6" screen)

The school chose the device because of:

- 1. Portability
- 2. Durability
- 3. T&L Affordances:
 - touch screen
 - use of stylus pen to write (Inking function)
 - typing using keyboard
 - video recording
 - multimedia editing



Device Information PLD Bundle

What it includes

- Acer TravelMate Spin TMB311R (Enhanced)
- Use of stylus pen to write, mouse, touch screen
- Insurance and Warranty

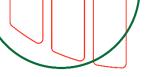
Enhanced Device Bundle

What it includes

- 3-year warranty and 3-year insurance
- 2 repairs or 1 replacement claim







What's Next







For Singapore Citizens

Time Frame	Activity	
27 January 2023	Submit Letter to Parents for Procurement which includes the following annexes: • Intent to purchase • Use of Edusave	
	To proceed with the purchase of the PLD, please fill in the on form at this link: <u>https://go.gov.sg/pdlpadmin</u> by 27 January 20 If you are unable to submit the form online, please access school website at <u>http://www.kranjisec.moe.edu.sg</u> (un announcements) for a hardcopy version.	
To be confirmed	Collection of Devices by students	





For Permanent Residents (PR) / International Students (IS)

Time Frame	Activity
27 January 2023	 Submit Letter to Parents for Procurement which includes the following annexes: Intent to purchase To proceed with the purchase of the PLD, please fill in the online form at this link: <u>https://go.gov.sg/pdlpadmin</u> by 27 January 2023. If you are unable to submit the form online, please access the school website at <u>http://www.kranjisec.moe.edu.sg</u> (under announcements) for a hardcopy version.
School will inform parents	Parent/Guardian to make payment via Giro/PayNow/ Cheque/etc.
To be confirmed	Collection of Devices
KRANJI SECONDARY SCHOOL THINKER . LEADER . CHAMPION	



Letter to Parents for Procurement



<u>**Parents with Singpass</u>** can access the Letter to Parents for Procurement to indicate your consent via the link:</u>

https://go.gov.sg/pdlpadmin

*Parents/Guardians without Singpass may access the form on the school website at <u>http://www.kranjisec.moe.edu.sg</u> (under announcements) to submit the hardcopy form to the Class Mentor.





What's Next... Collection of Devices

Your child/ward will be collecting his/her device in school. More information will be provided at a later date.

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.





Important Contacts / Helplines

To access/find out more about	Contact/Helpline
Parent Engagement Slides	https://www.kranjisec.moe.edu.sg
Edusave Balance	6260 0777
Financial assistance available	Mdm Chua Hern Ying Administration Manager CHUA_hern_ying@schools.gov.sg
Code of Conduct for Personalised Digital Learning Programme (PDLP)	Mr Jeremy Chan HOD Character Guidance chan_mun_leong_jeremy@schools.gov.sg

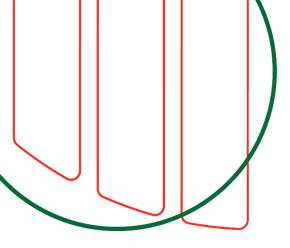




Important Contacts / Helplines

To access/find out more about	Contact/Helpline
National Digital Literacy Programme	Ms M Losiny HOD ICT m_losiny@schools.gov.sg
Cyber Wellness Matters	Mr Tan Fong Wei HOD CCE tan_fong_wei@schools.gov.sg
Device Management Application	Ms Siti Khadijah ICT Associate siti_khadijah_mohamed_tawfik@schools.gov.sg





THANK YOU!



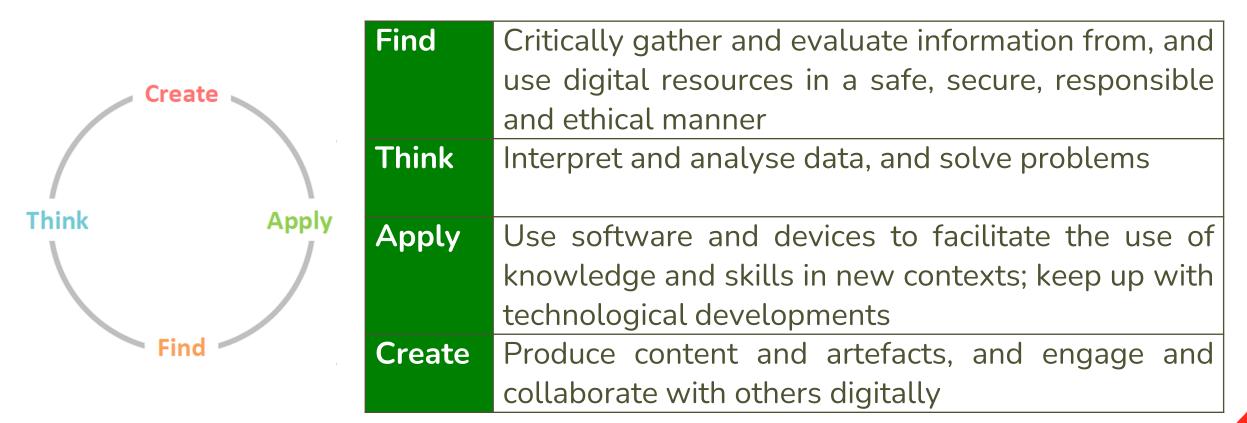






The National Digital Literacy Programme (NDLP)

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





Insurance Coverage

The package includes a 3-year warranty, and 3-year insurance which includes:

Insurance Coverage	Claimable
 Fire Lightning Power Surges Accidental e.g water spillage, drop etc Theft due to forcible entry Robbery * Accidental loss will not be covered by insurance. 	2 repairs or 1 replacement (3-year insurance)

Students should learn to take responsibility for their devices, and to learn how to care for them.



Technical Support for Student's Devices

Technical support will be provided to students through:

- Service-desk set up in school (Computer Lab 4, Level 3) during breaks and after school on a weekly basis
 - o During Curriculum Hours: 1:00pm 4:00pm
 - ✓ Trouble-shooting of device issues
 - \checkmark Solve connectivity issues
 - ✓ Collection of devices to be sent for repairs
- Acer Service centre
 - o Location: 29 International Business Park, Singapore 609923
 - Repair of devices (hardware issues)
 - ✓ Fortnightly courier services by Contractor is provided for damaged devices, so students would handover and collect their devices at 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





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







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:

- URL's 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 <u>during lessons only</u>



Data collected by DMA

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 by DMA

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.



