



中正中学总校 Chung Cheng High School (Main)

# Parents Briefing on

**Personalised Digital Learning Programme (PDLP)**

and

**Blended Learning (BL)**



# Content

- **Overview of PDLP**
- **Provision under PDLP**
- **Roll-Out Process**
- **Cyberwellness for students**
- **Support for use of PLD**
- **Blended Learning**
- **Q&A**



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# Overview of PDLP



# Overview of PDLP

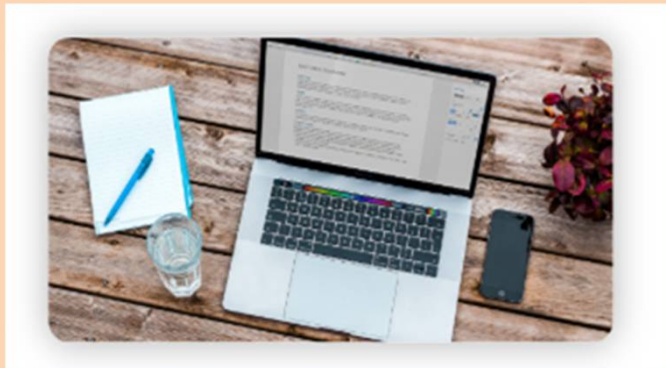
- **The National Digital Literacy Programme (NDLP)**
  - The NDLP was launched in March 2020 to make digital learning inclusive by equipping students with the digital literacies to be future-ready.
  - Under the NDLP, MOE announced the PDLP in 2020 that every secondary student will own a school-prescribed personal learning device (PLD) by end-2021. Singapore Citizen students can use their Edusave Account to pay for the PLD.



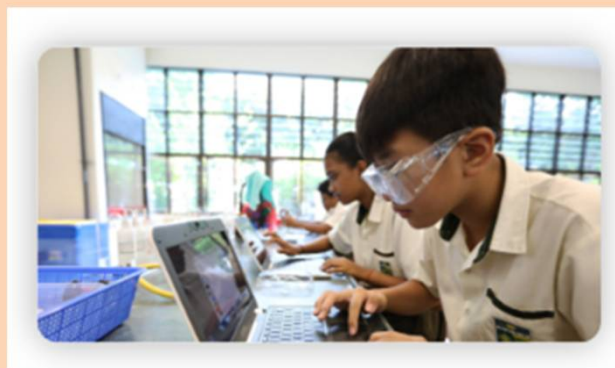
# Overview of PDLP

- **Intended Outcomes of PDLP**

- The use of the personal learning device for teaching and learning aims to:



**Support the Development of Digital Literacies**



**Support self-directed and collaborative learning**



**Enhance Teaching and Learning**



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# Provisions under PDLP



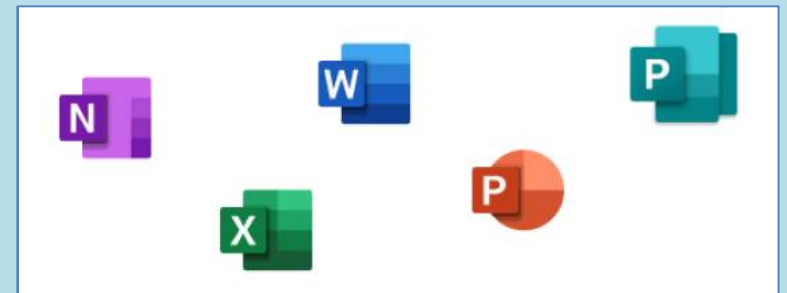
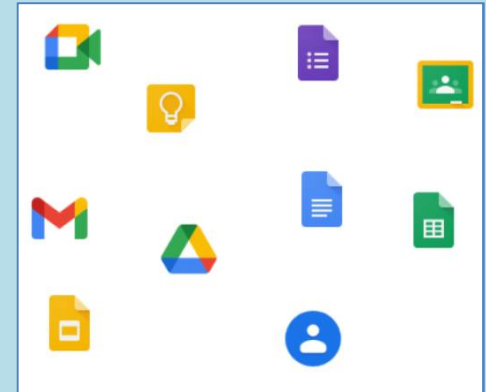
# Provisions under PDLP

- **Students will be provided with**
  1. **MOE Centralised ICT Systems (MOE Systems)**
    - Free
  2. **Personal Learning Device (PLD)**
    - Bulk purchase price
    - Payable by Edusave (Singapore Citizens)
  3. **Device Management Application (DMA)**
    - Free



# 1. MOE Systems

- **The MOE System comprises**
  - **Student iCON**
    - **Google Workspace Applications and Services**  
Mail, Google Meet, Google Classroom and many more
  - **Zoom**
  - **Microsoft Pro Plus**
    - **Word, Excel, PowerPoint, OneNote, Publisher**







# 1. MOE Systems

- **Benefits**
  - Free of charge
  - Licensed use
  - Using MOE application settings for safe and secure use



## 2. Personal Learning Device

- **Our school will be using Chromebook as students' PLD**
  - Low cost
  - High Functionality
  - Faster boot-up
  - Longer lasting battery
  - Networked and Cloud computing environment
    - Web-based applications



## 2. Personal Learning Device

- **Selected Model – Acer R752TN**  
– Specifications

OS	Chrome OS
Processor	Intel N4020
RAM and Storage	8 GB, 64 GB
Battery	10 hrs (Max. Run Time)
Weight	1.25 Kg
Screen	11.6" (Multi-Touch), Dual Camera
Accessories	Wacom Stylus (built-in), no Mouse
Convertible	Yes (Backflip)
Shock resistant	Yes





## 2. Personal Learning Device

- **Warranty and Insurance Bundle**
  - 3-year warranty
  - 3-year insurance

Insurance Coverage	Claimable
<ul style="list-style-type: none"><li>● Fire</li><li>● Lightning</li><li>● Power Surges</li><li>● Accidental damage e.g water spillage, drop etc</li><li>● Theft due to forcible entry</li><li>● Robbery</li></ul> <p>* Accidental loss will not be covered by insurance.</p>	<p><b>2 repairs</b></p> <p><b>or</b></p> <p><b>1 replacement</b></p>



## 2. Personal Learning Device

- **Technical Support**
  - Service Desk in school
    - Troubleshooting (Software and Connectivity)
  - Courier Service to Acer Service Centre
    - Repair (Hardware)
    - Temporary loan of device



## 2. Personal Learning Device

- **Cost**
  - Bulk Purchase price
  - \$474 (inclusive of GST)



## 2. Personal Learning Device

- **Funding and Payment**

- **Singapore Citizens (SC)** can use Edusave to pay for the PLD

- To ensure the affordability of devices, MOE has provided **an Edusave top-up of \$200 in 2020**
- MOE will provide **another Edusave top-up of \$200 in May 2021**
  - part of the Household Support Package announced in Budget 2021 (to all eligible SC students in primary and secondary schools)
- This is on top of the **annual \$290** credited into the Edusave account for Secondary School students.



## 2. Personal Learning Device

- **Funding and Payment**

- Most SC students would have sufficient funds in the Edusave account (Tel: 62600777) after the top-ups
- Should the Edusave funds be insufficient, out-of-pocket cash payment would be kept low
  - SC students on **MOE FAS**
    - will not need to make out-of-pocket cash payment
  - SC students with **Gross Household Income (GHI) below \$4,000 or Per Capita Income (PCI) is below \$1,000**
    - Subsidies will be provided to minimize cash payment
    - Please approach the school for assistance





## 2. Personal Learning Device

- **Funding and Payment**
  - Permanent residents (PR) and international students (IS) will make cash payment for the PLD
  - PR and IS who need support could approach the school
    - Financial assistance may be provided on a case-by-case basis



## 2. Personal Learning Device

- **Option to Purchase**
  - All students are required to have a PLD under the Personalised Digital Learning Programme
  - They should purchase the school-prescribed PLD as far as possible
    - Common digital environment
    - Efficient technical support by the school



## 2. Personal Learning Device

- **Option to Purchase**

- For students who are thinking of using their existing own device as the PLD
  - Specifications must be compatible with the school systems
    - To ensure effective running of all teaching and learning applications and platforms
  - Device Management Application (DMA) will be installed
    - To ensure safe and proper use of device in school
  - Need to arrange with the school to check specifications and install DMA



## 3. Device Management Application

- **DMA** will be installed on all PLD devices
  - Provide a safe learning experience and to prevent misuse of the device.
  - Applies to both school-selected PLD and student's own PLD
- The DMA will be funded by MOE and will be uninstalled from the device when student graduates/leaves the school.



## 3. Device Management Application

- **DMA has 3 components**
  - Mobile Device Management Service (MDM)
  - Classroom Management Service (CMS)
  - Usage Management Service (UMS)



## 3. Device Management Application

### 1. Mobile Device Management Service (MDM)<sup>1</sup>

This facilitates the **updating and management of the PLDs**, protects PLDs from **malicious software**, and **protects students from objectionable internet content**.

- Facilitates automatic installation of apps required for teaching and learning
- Filters objectionable content (e.g. social media, pornography, gambling, extremist and violence)
- Protects the students' PLDs from security vulnerabilities through automatic updating and patching of apps and device Operating System (OS)

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



## 3. Device Management Application

### 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 usage and activities (e.g. screen sharing, monitoring students' browsing history during lessons)



## 3. Device Management Application

### 3. Usage Management Service (UMS)

This enables the school and/or parents 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





## 3. Device Management Application

- **In-School DMA settings**

- During school hours (7.30 am to 6 pm), the school will use a standard set of **In-School Settings** for the DMA in all PLD
  - To help students focus on learning in a safe and conducive online environment
- Under the **In-School Settings**
  - The school will set the level of web content filtering, including filtering out social media sites, pornography, gambling, extremist and violence-related sites
  - The school will set the apps and programmes that can be run



## 3. Device Management Application

- **As a default,**
  - The **In-School Settings** will continue to be in place after school hours as well
  - The device usage time will be 5 am to 12 am
    - This means the device cannot be used from 12 am to 5 am
    - Provides flexibility while instilling sleep discipline



## 3. Device Management Application

- Parental options of DMA settings after school**

<b>Default Option</b>	<b>Option A</b>	<b>Option B</b>
<p><b>In-school DMA settings will continue after school hours</b></p> <p>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. It will follow the same DMA settings set by the school during school hours.</p>	<p><b>Parents can determine DMA settings after school hours</b></p> <p>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.</p>	<p><b>Parents can choose to disable DMA after school hours</b></p> <p>For parents/guardian who do not want their child's/ward's use of the device to be regulated by DMA after school.</p>



## 3. Device Management Application

- **Parental options of DMA settings after school**
  - **Default Option**
    - **Best option** for parents who
      - prefer to let the school manage the device use
      - do not feel ready to manage their child's device use
    - Recommended for the initial period
    - Parents can request to change their choice of DMA settings at any time
  - There will be a parent account to allow you to monitor your child's PLD activities and partner the school to ensure the student's cyber well-being



## 3. Device Management Application

- **DMA Security**

- The DMA does **NOT** collect any of these data:

- Login IDs and passwords
- Activities and data (e.g. posts, online comments, shopping cart, etc.) when visiting websites and use apps
- Documents and photos stored in the PLDs
- PLD location
- Webcam videos and microphone recordings



## 3. Device Management Application

- **DMA Security**

- 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 these accounts.



## 3. Device Management Application

- **DMA Security**

- All user data collected through the DMA will be stored in secure servers managed by appointed DMA Vendors with **stringent access controls and audit trails** 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 subjected to **regular security review and assessment**.



## 3. Device Management Application

- **DMA Security**

- 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.





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# Roll-Out Process



# Roll-Out Process

- **MOE Systems**

- On-boarding of Student iCON from 5 May (Wed)
  - Username and password will be given
  - Supervised by teacher to conduct a first-time login



# Roll-Out Process

- **PLD (Consent to Purchase)**
  - Letter to Parents for Procurement
    - To be given out by Form Teacher next week
  - Parents to indicate
    - Intent to purchase
    - Use of Edusave (SC students only)
  - Submit the reply to Form Teacher by the stipulated date on the letter



# Roll-Out Process

- **PLD (Billing and Payment)**
  - Payment amount will be indicated in the June School Bill to be sent to parents
  - Parents to make payment using existing mode of payment (e.g. GIRO)



# Roll-Out Process

- **PLD (Collection)**
  - Expected delivery of PLD to school – **Mid Aug**
  - Students will collect the PLD in school under the guidance of teachers
    - Check Specifications and Functionalities
    - Conduct Device Start-up and Set-up



# Roll-Out Process

- **DMA**
  - Default settings upon issuance of PLD to students
  - Parents can approach the school to change the setting option later



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# Cyberwellness of Students



# Cyberwellness of Students

- **Ensuring cyberwellness of our students**

Protection	Device Management Application (DMA)
Education	Values Inculcation and Character Building
Support	Home-School Partnership





# Cyberwellness of Students

- **DMA**
  - Create a Positive and Healthy physical and cyber environment
    - Content
    - Usage
    - Experience



# Cyberwellness of Students

- **Values Inculcation and Character Building**

- MOE has made significant changes to the Character and Citizenship Education.
- Cyber Wellness lessons will feature significantly in the CCE2021 lessons.
- Topics covered in the Cyber Wellness lessons include:

<b>Cyber Use</b>	<i>Maintaining a healthy balance of online and offline activities</i>
<b>Cyber Identity</b>	<i>Developing a healthy online identity</i>
<b>Cyber Relationships</b>	<i>Developing safe, respectful and meaningful online relationships</i>
<b>Cyber Citizenship</b>	<i>Being a positive presence and influence in the online community</i>
<b>Cyber Ethics</b>	<i>Creating and sharing online content in a responsible manner</i>



# Cyberwellness of Students

- **Values Inculcation and Character Building**

- In addition, through various programmes in school, students will continue to learn to be **Respectful and Responsible users of technology.**

- **立己达人 (Lead Self, Lead Others)**

- **自重重人人重之 (Respect Self, Respect Others)**

- **自爱达人为己任 (Responsible to Self, Responsible to Others)**



# Cyberwellness of Students

- **Home-School Partnership**

- Parents are critical partners in supporting cyberwellness of students
- Parents can help in the following ways:
  - 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 internet use
  - Navigate the internet together to understand their usage



# Cyberwellness of Students

- **Home-School Partnership**

- Resources for parents :

- Parent Handbooks (I) and (II) on Learning with a Personal Learning Device
- Parent Kit on Cyber Wellness for Your Child (<https://go.gov.sg/moe-cyber-wellness>)
- 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>)



# Cyberwellness of Students

- **Let us work closely together**
  - Protection
  - Education
  - Support



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# Support for use of PLD



# Support for use of PLD

- **Care and Storage in School**
  - Students are expected to take care of their belongings including the PLD
  - Lockers are provided for temporary safe-keeping during school hours
    - Particularly during recess/lunch breaks and PE lessons
    - Students should not leave the PLD in school overnight





# Support for use of PLD

- **Charging**

- Students are expected to have the PLD fully charged before coming to school
  - To have the habit of charging the PLD upon reaching home
  - No need to bring charger to school
- No charging in the classroom
  - Safety considerations
- Limited charging stations in the school library for charging during recess and lunch break
  - Student must be present



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# Blended Learning



# Blended Learning

- **Overview**

- Blending of In-School Learning (ISL) and Home-Based Learning (HBL)
- Students will carry out Home-Based Learning (HBL) on some days in a school term
  - About 3 to 4 days in a school term



# Blended Learning

- **Objectives**

- Integration of HBL as a regular feature in the schooling experience
- Promote independence and self-directedness in learning
- Enhance digital literacy and the use of ICT tools in learning



# Blended Learning

- **Structure**

- 2 sets of Weekly Timetable

<b>Full School Week (FS Week) Timetable</b>	<b>Blended Learning Week (BL Week) Timetable</b>
<p><b>Students report to school for In-School Learning (ISL) for all days of the week</b></p> <p><b>Usual school arrangements</b></p>	<p><b>Students report to school for In-School Learning (ISL) on Mon, Tue, Wed, Fri</b></p> <p><b>Students stay at home for Home-Based Learning (HBL) on <b>Thu</b></b></p> <ul style="list-style-type: none"><li>- <b>Follow the learning schedule for the day</b></li><li>- <b>Live check-in with teacher for every lesson</b></li><li>- <b>Time for Student-Initiated Learning (SIL)</b></li></ul>



# Blended Learning

- **Implementation**

- Commencement in Term 3
- Students will be given FS Week Timetable and BL Week Timetable before the start of Term 3
- They will be told which weeks are FS and which weeks are BL
  - Tentative Plan (for illustration)

FS Week	BL Week
Week 1, 2, 3, 4, 7, 8, 10	Week 5, 6, 9



# Blended Learning

- **A typical HBL Day**
  - Lessons from 8.30 am to 1.00 pm
  - Student-Initiated Learning (SIL) from 2.00 pm to 3.00 pm



# Blended Learning

- **Student-Initiated Learning (SIL)**
  - Our school will focus on **Self-Learning with the Internet**
    - Develop learning skills in using the Internet
      - How to search for relevant and appropriate information
      - How to discern information for accuracy and non-biasness
      - How to ensure safety and security
    - Acquire new knowledge using the Internet
      - How to translate information into knowledge
      - How to evaluate knowledge mastery





# Blended Learning

- **Student-Initiated Learning (SIL)**
  - Examples of self-learning
    - Learning ICT skills
      - Website Creation, Coding, Video Editing
    - Language skills
      - Korean, Japanese
  - Examples of Internet resources for self-learning
    - Self-Learning websites
    - YouTube
    - Wikipedia



# Blended Learning

- **Effectiveness of HBL**
  - Use of appropriate lesson design and pedagogy
  - Close monitoring by teachers
  - Home-school partnership



Let us work together in this journey to strengthen the digital literacy of the new generation



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Thank You

谢谢大家