



QUEENSTOWN
SECONDARY SCHOOL

Personal Learning Device (PLD) Initiative

Briefing for Parents

A PRESENTATION BY
MINISTRY OF EDUCATION, SINGAPORE

The National Digital Literacy Programme and the PLD Initiatives

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.

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**



Students' Experiences

go.gov.sg/student-voxp

* Will embed the video into the slide when sharing with Parents



Learning with a PLD @ Queenstown Secondary School



Learning with a PLD @ QTSS

Getting our Queenstownians future-ready

We are developing our Queenstownians to be

- A **Passionate Learner** - arouse students' curiosity and passion to learn; self-directed learning in a broadened curriculum
- A **Reflective Thinker** - self-assessment in learning (both academic and character domains); engagement with real-world issues
- An **Adaptable Collaborator** - develop students to be an effective communicator, collaborator and connected learner.
- An **Innovative Creator** - ignite students' creativity & stimulate innovation through pursuit of students' interests (e.g. coding, designing) and gain greater literacy in creating digital products
- A **Confident Advocator** - advocates and practices safe and responsible use of technology to rally others to serve the community.





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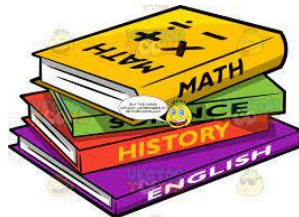
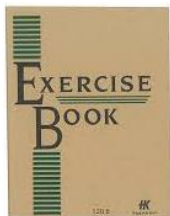
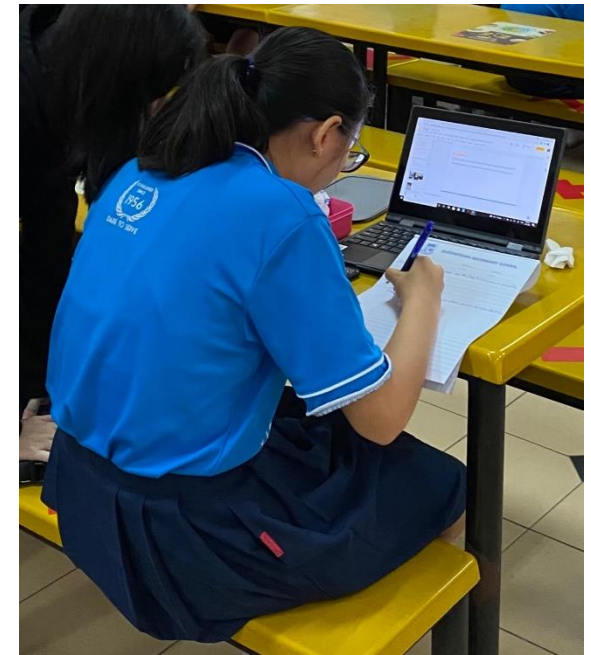
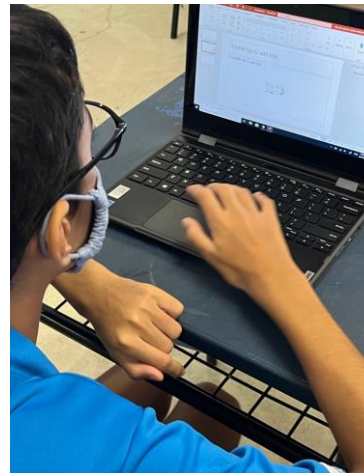
Learning and Collaborating via MS TEAMS



How Teaching and Learning will be Transformed?



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How Teaching and Learning will be Transformed?





TEACHING AND LEARNING (MATH)

QTSS Example:
“LIVE” lessons with Teacher, Ms Caroline, using MS Meet

The screenshot shows a Microsoft Meet interface for a live lesson. The main window displays a grid of student video feeds. On the right, there is a sidebar with a 'Participants' list, a 'Meeting chat' window, and a 'Presenters' list. The bottom right corner displays a shared document with handwritten mathematical notes and diagrams.

Participants:

- MR (Mohamed R.)
- HN (Nur Harvani H.)
- SH (Shahariz)
- AT (Adrian James Tagari)
- DT (Danish Amrui Bin Dan Ta)
- MN (Muhammad N.)
- +17

Presenters (2):

- Wool Lian Hong Caroline
- NUR HARVANI MOHAMED H.

Attendees (23):

- ADRIAN JAMES TAGARI
- ANG LU KAI
- DANISH AMRUI BIN DAN TA
- DYLER TAN YONG SHAN
- EMCHERAS AHMED
- HUYNH VU NGUYEN
- LOW JUSTIN JOSEY PASCO

Meeting chat:

- ELROY WONG: sorry i go shower jn
- CHER RUTH: 2:29 PM get just come back from hospital while ago
- MURUGESAN PRANAVESH: i got it wrong
- CHER RUTH: 2:44 PM ok and????
- MURUGESAN PRANAVESH: no

Shared Document:

Chapter 9.2, we learnt that 0° , 90° , 180° , 270° or 360° do not lie in any quadrant. These angles do not have any basic angle, so we cannot use ASTC to determine the signs of their trigonometric ratios. Instead, we have to make use of our understanding of their graphs.

Example 5 (TRB Page 245 Worked Example 5):

Find the angles between 0° and 360° inclusive which satisfy the equation $\sin x - 120^\circ = 0$.

Solution:

$\sin x = 0$ or $\cos(x - 120^\circ) = 0$

$x = 0^\circ, 180^\circ, 360^\circ$ or $x - 120^\circ = 90^\circ, 270^\circ$

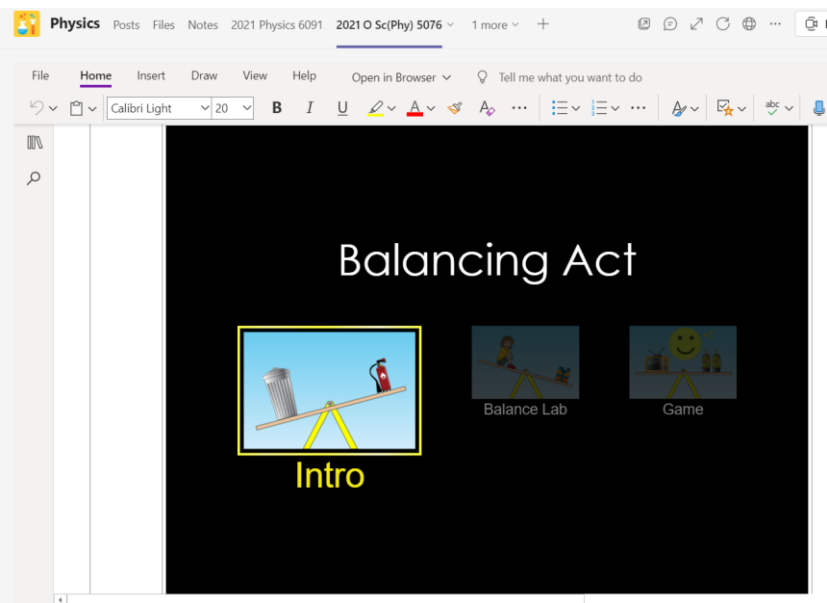
$x = 120^\circ, 390^\circ$

Practice 5:

Find all the angles between 0° and 360° inclusive which satisfy the equation $\cos x \sin(x + 30^\circ) = 0$



TEACHING AND LEARNING (Science)



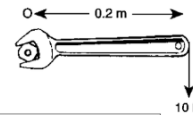
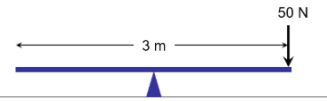
Physics Posts Files Notes 2021 Physics 6091 2021 O Sc(Phy) 5076 1 more +

File Home Insert Draw View Help Open in Browser Tell me what you want to do

Calibri Light 20 B I U A

4

Application of Moments Formula

Questions	Solutions
(a) Calculate the moment of the 10N force about the pivot O. 	
(b) A boy pushed downwards on one end of a 3 m uniform rod, which was pivoted at the middle. If he pushed with a force of 50 N , determine the moment he produced on the rod and state the direction of this moment . 	
(c) Since the rod is balanced at the centre, the perpendicular distance between line of action of force and pivot is 1.5 m.	

Science: Interactive simulation tool for
the conceptual learning of Science



TEACHING AND LEARNING (Math)

Maths: Exploring concepts with interactive applets and use of on-screen inking

Activity < All teams

Chat

Teams

Sec 3 Exp Micro-teaching

Assignments

General

Calendar

Calls

Files

...

Apps

Help

Search

General Posts Files Class Notebook Assignments Grades +

File Home Insert Draw View Help Class Notebook Open in Browser Tell me what you want to do

Calibri Light 20 B I U

line of sight

Aden

34.9°

horizontal

A

B

C

D

Task

T do: Observe and learn from teacher when teacher goes through.

U do: Using the applet above, move + to points A, B, C, D and fill up the following table respectively.

Position of + at point	A	B	C	D
Name: Angle of	elevation			
Size of the angle	11.6			



TEACHING AND LEARNING (Math)

Maths: Scaffolded questions and adaptive learning

Challenge Yourself (Circle Properties)

Try Again! (Click "Back" to try again)

Recall the properties : Perpendicular bisector of chord and equal chords

Back

Submit

Great job! Now try the next question.

Back

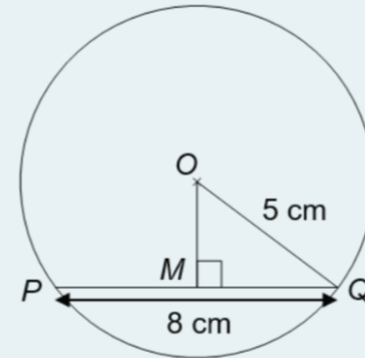
Next

Excellent! You are now ready to move on to Level 2.

Back

Next

The diagram shows a circle of radius 5 cm. It has a chord PQ of length 8 cm. Calculate the length of OM .



☐ 1.5 cm

☒ 3 cm

☐ 4 cm

☐ 6.40 cm

☐ 9.43 cm

Back

Next



TEACHING AND LEARNING (Science)

Science: Game-based exploration of concepts

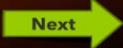
Mission

Your mission is to digest and move food through the digestive system within the time limit.




Instructions


Move your food around the digestive system with the mouse.

Pick up items required for digestion along the digestive system.



Choose the food to digest





Q1

INSTRUCTIONS

You may select more than one option.

Which statement(s) about digestion can you conclude from the simulation 'Mission Digestion'?

- ☐ Chewing breaks up food into smaller pieces.
- ☐ Enzymes are required to speed up digestion.
- ☐ Food is digested in all organs of the digestive system.
- ☐ Food provides us with energy to do work and nutrients for growth and repair.
- ☐ Undigested food is passed out of the body.

MARKS [1]



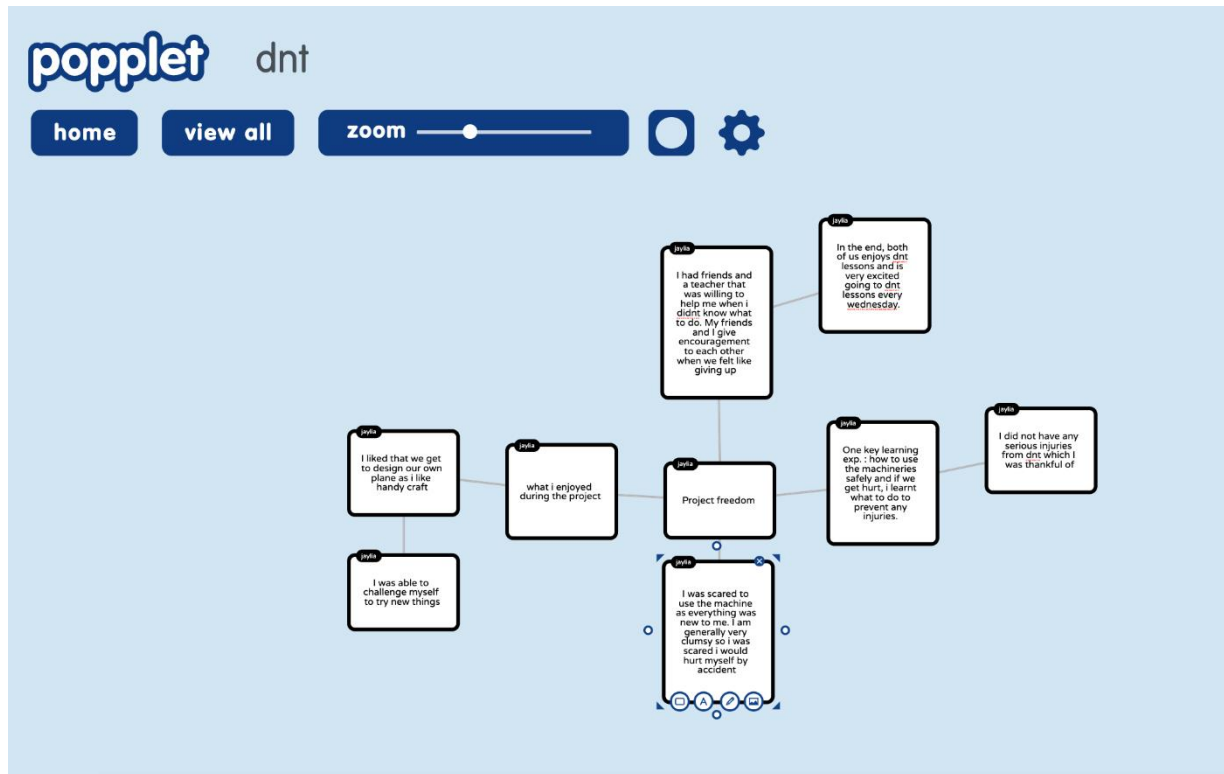
SAVE AS DRAFT

SUBMIT



TEACHING AND LEARNING (Design & Technology)

D&T:
Mindmapping
skills using
Popplet





TEACHING AND LEARNING (Computer Application)

CPA: Kahoot! for
engage learning

The screenshot shows the Kahoot! web interface. At the top, there's a navigation bar with links: Home, Discover, Library, Reports, Groups, and AccessPass. On the right, there are buttons for 'Upgrade' (with a star icon), 'Create', and a user profile icon with a bell. Below the navigation bar is a grid of colorful icons representing different topics: a computer, documents, a stick figure, a lightbulb, a play button, a presentation screen, and a bar chart. The main content area is titled 'Questions (16)' and 'Show answers'. It displays three quiz questions:

- 1 - Quiz**
The image resolution is measured in dpi. What does dpi stand for?
20 sec
- 2 - Quiz**
In a multimedia presentation, what will happen if we insert an image ...
20 sec
- 3 - Quiz**
Which is secondary storage?

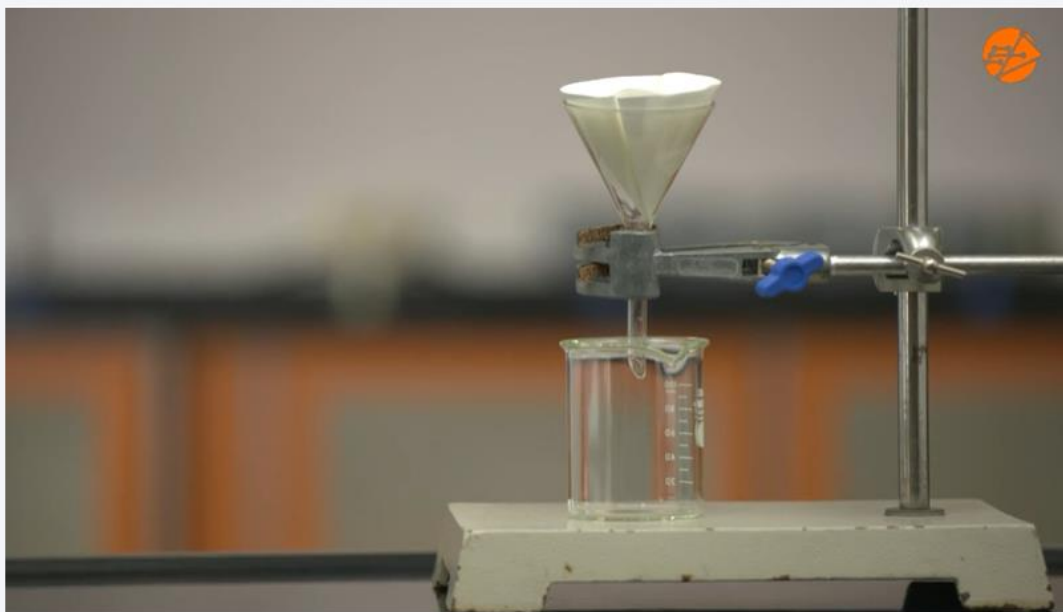
On the left side of the interface, there's a section for 'CPA Quiz 1' with 51 plays and 251 players. It includes buttons for 'Start', 'Assign', and 'Practice', and a 'Theory Revision' link.



3. Preparation of Insoluble Salts by Precipitation

Insoluble salts such as silver iodide and barium sulfate can be prepared by a precipitation reaction between two aqueous reactant solutions. In this reaction, the solutions will react to form an insoluble solid product called a precipitate.

Let us watch a video to see how a pure and dry sample of silver iodide can be prepared in the laboratory.



Q2

What is the purpose of washing silver iodide with distilled water?

Pre-populated Answer here...

Suggested Answer

Feedback

Teacher's Feedback



Suggested Answer

To remove impurities (i.e., unreacted silver nitrate) to ensure that a pure sample of salt is collected.

Q3

Can we prepare insoluble salts like barium sulfate by using insoluble barium carbonate and dilute sulfuric acid as reactants? Explain your answer.

Pre-populated Answer here...

Suggested Answer

Feedback

Teacher's Feedback



Suggested Answer

No. While there would be an initial reaction between sulfuric acid and barium carbonate, it would stop after a short amount of time as a layer of insoluble barium sulfate will form over the surface of the insoluble barium carbonate and prevent the reactants from coming into contact with each other, leading to an incomplete reaction.

**Science: Promote
Thinking and Discussion**



TEACHING AND LEARNING (Mother Tongue)

Guiding Questions

- What does electrical energy mean?
- How is electrical energy generated in power stations?
- Discuss the energy efficiency in power stations.
- Share at least 2 different pictures / diagrams showing electrical energy in action.

子则一
敢问阁下本事几斤俩?

使用) 哪些兵器词语?



- gauge the level of prior learning as an individual



任务一B: 观察入微

• 分析
男主角的性格特点

女主角的性格特点

并说明你怎知道的。

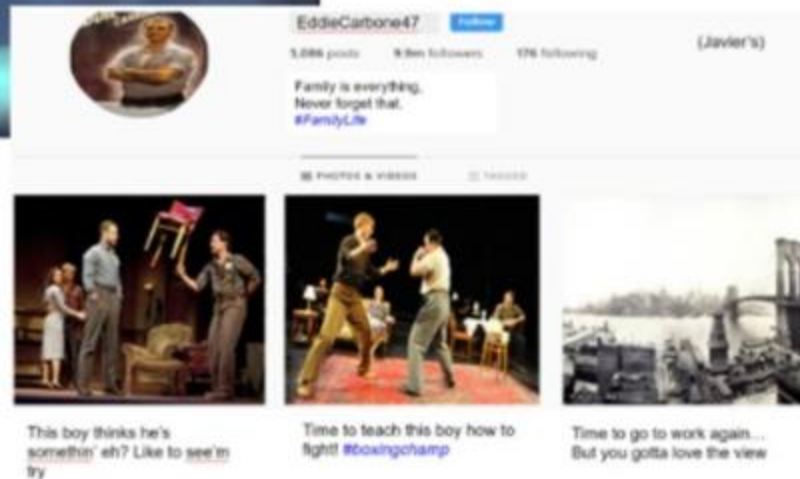


Sample from MTL
connecting and
communicating digitally (e.g.
collaboration on Padlet)

Sample from Literature
Creating text-based digital
artefacts (e.g. captured IG
accounts, online blog)



Sample from Science
learning with resources and
people online (e.g. SLS)





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Using PLDs during English lessons





Using PLDs During CCA





Other Areas of Learning & Collaboration

Project Work

CYL (NYAA)

Personal Journal

Affirmation Notes



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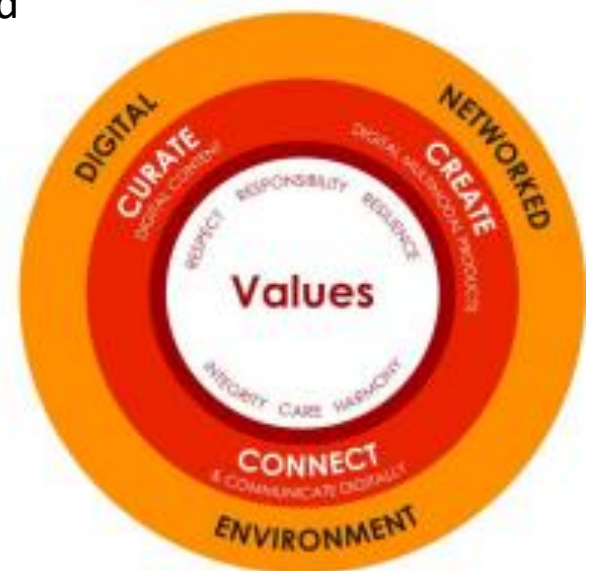
Digital Literacy Programme



QTSS DIGITAL LITERACY PROGRAMME

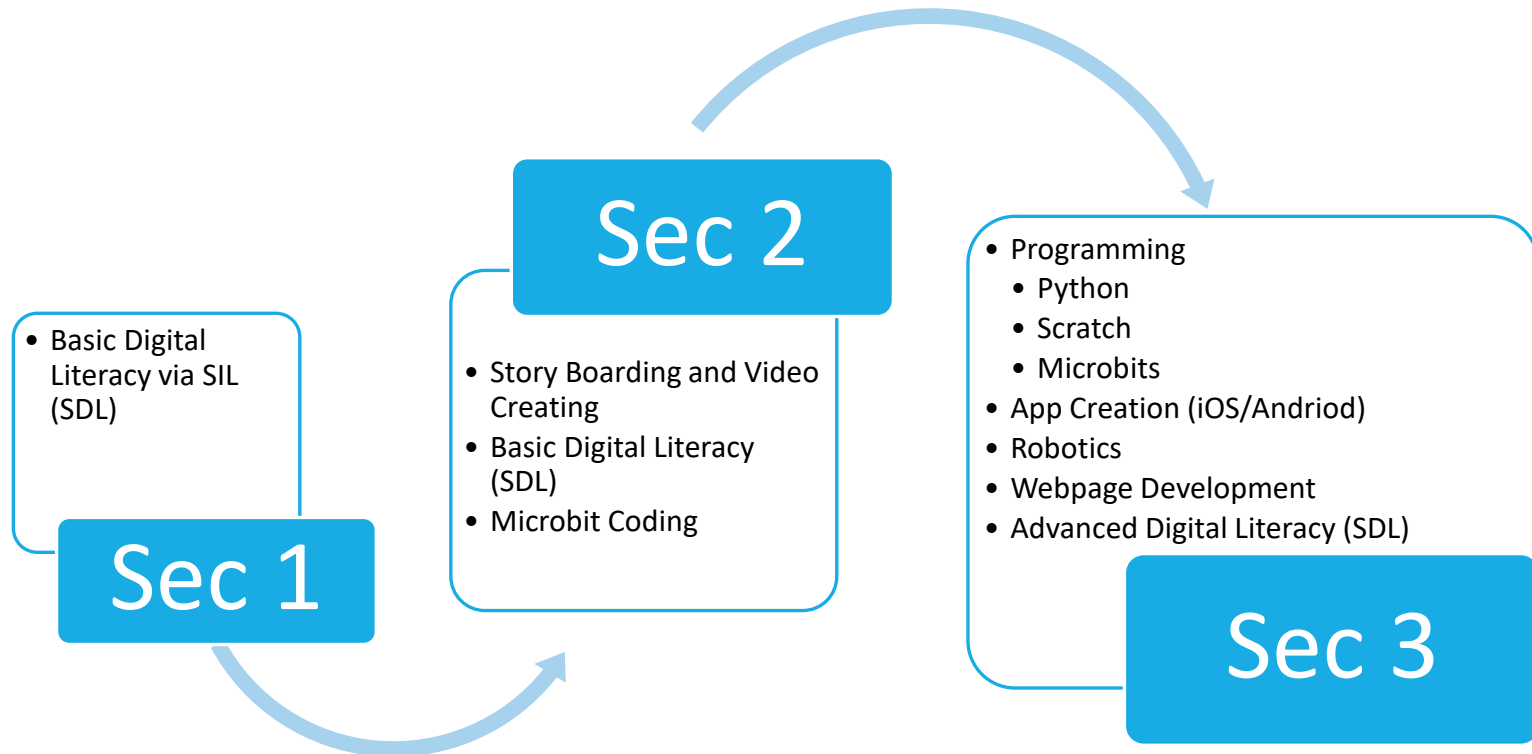
To develop in students the dispositions, knowledge and skills to thrive in the digital environment, PDLP Digital Literacy serves to equip students with the following:

1. New Media Literacies (NML) as the competencies to curate, connect and create information in the digital networked environment
2. Productivity Skills to operate devices and software effectively





QTSS DIGITAL LITERACY PROGRAMME



Supporting Students in the Safe and Effective Use of the Devices

Cyber Wellness Concerns Identified by International Studies



Harmful Online Content

50% of Singaporean teenagers are exposed to cyber threats and 28% of them are exposed to violent content.

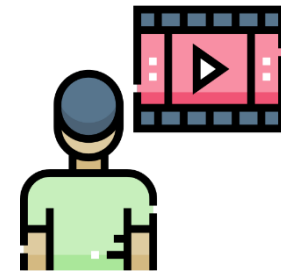
(COSI, 2020)



Distraction from Learning

72% of teens feel compelled to immediately respond to texts, social posts and notifications.

(Kimball & Cohen, 2019)



Excessive Screen Time

Teens who don't sleep enough report higher levels of depressive symptoms than well-rested peers (31% vs. 12%).

(Kimball & Cohen, 2019)



Supporting Students in the Safe and Effective 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.




- 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

- All students will be given lockers to keep their electronic devices safely.
- Implemented Schoolwide Classroom Routines

School-wide Learning Routines

Before		ACLAP A : Attendance & Punctual CL : Ensure Cleanliness of the Learning Environment A : Proper Attire P : Preparedness (HP in the Locker/Materials Ready)
During		SPUR S : Stay Focused (Know Lesson Objectives) P : Participate Actively (Be Engaged & Check Learning) U : Use PLD Wisely (As Required by Lessons) R : Respect Each Other/Opinions (One Voice / Listen)
After		R&R R : Reflect and Consolidate your Learning R : Remember to Complete tasks and Charge your PLD





Cyber Wellness Education

The school also has strategies to enable school-wide implementation of CCE. These include:

- Cyberwellness week
- Class-discussion on Cyberwellness issues
- Series of Assembly programmes sharing cyberwellness tips
- Promoting a positive online presence through a **Peer Support Culture**





Cyber Wellness Education

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

- go.gov.sg/moe-cyber-wellness
- go.gov.sg/beta.moe.gov.sg/programmes/cyber-wellness/
- go.gov.sg/better-internet-sg
- sure.nlb.gov.sg/
- help123.sg

Cyber Wellness Talks for parents will be organised in collaboration with PSG



Supporting Students in the Responsible Use of the Devices

Acceptable Use Policy (AUP)

Parents could refer to the AUP when helping to manage his/her child's use of the PLD. The AUP will help your child to **understand the expectations of device use to enable a conducive learning environment.**

It also **outlines the consequences** for violating the policy.



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.

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



[What Do Parents Think About Personal Learning Devices \(PLDs\)?
\(Learning Differently With PLDs\) – YouTube](#)

Will download and embed it

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**.



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 **0700hrs to 2300hrs** 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

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
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.

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

	Default	Option A	Option B
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 can modify the amount of screen time*	No control over screen time

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

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

	Default	Option A	Option B
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 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
- 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 (<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

Queenstown Sec Sch's PLD



The school will be using the **ACER TravelMate Spin B311R-32** for teaching and learning.

Total cost with GST: **S\$628.09**

Intel N6000
| 11.6" | Windows 10 Pro (Education) | 4GB RAM |
128GB eMMC |
Intel UHD 600 | Integrated WLAN 802.11ac +
Bluetooth v5.0 |
Active Stylus Pen

Queenstown Sec Sch's PLD



The school chose the device because of:

- Portability
- Durability
- T&L Affordances (Windows)
- Inkling Capability

ACER TravelMate Spin B311R-32



PLD Bundle

Device Bundle includes

- **ACER TravelMate Spin B311R-32**
- **Active Stylus Pen**
- **Power Adaptor, Mouse, Carrier Bag**
- **Insurance and Warranty**

Your child's/ward's PLD will come with the **Enhanced Device Bundle** which includes:

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

Funding Support for Singapore Citizen (SC) Students

- To ensure the affordability of devices, MOE has provided Edusave top-ups of \$200 in 2020 and \$200 in May 2021 (as 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 and \$230 for Primary School students.
- Singapore Citizen (SC) FAS Student: Device will be fully subsidise for FAS Students. Please refer to the next slide.
- Singapore Citizen (SC) Non FAS Student: Device can be pay via Edusave fund
- Permanent residents (PR) and international students (IS):
***Pending Arjuna PDLF briefing on the 12 Jan 2022**

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

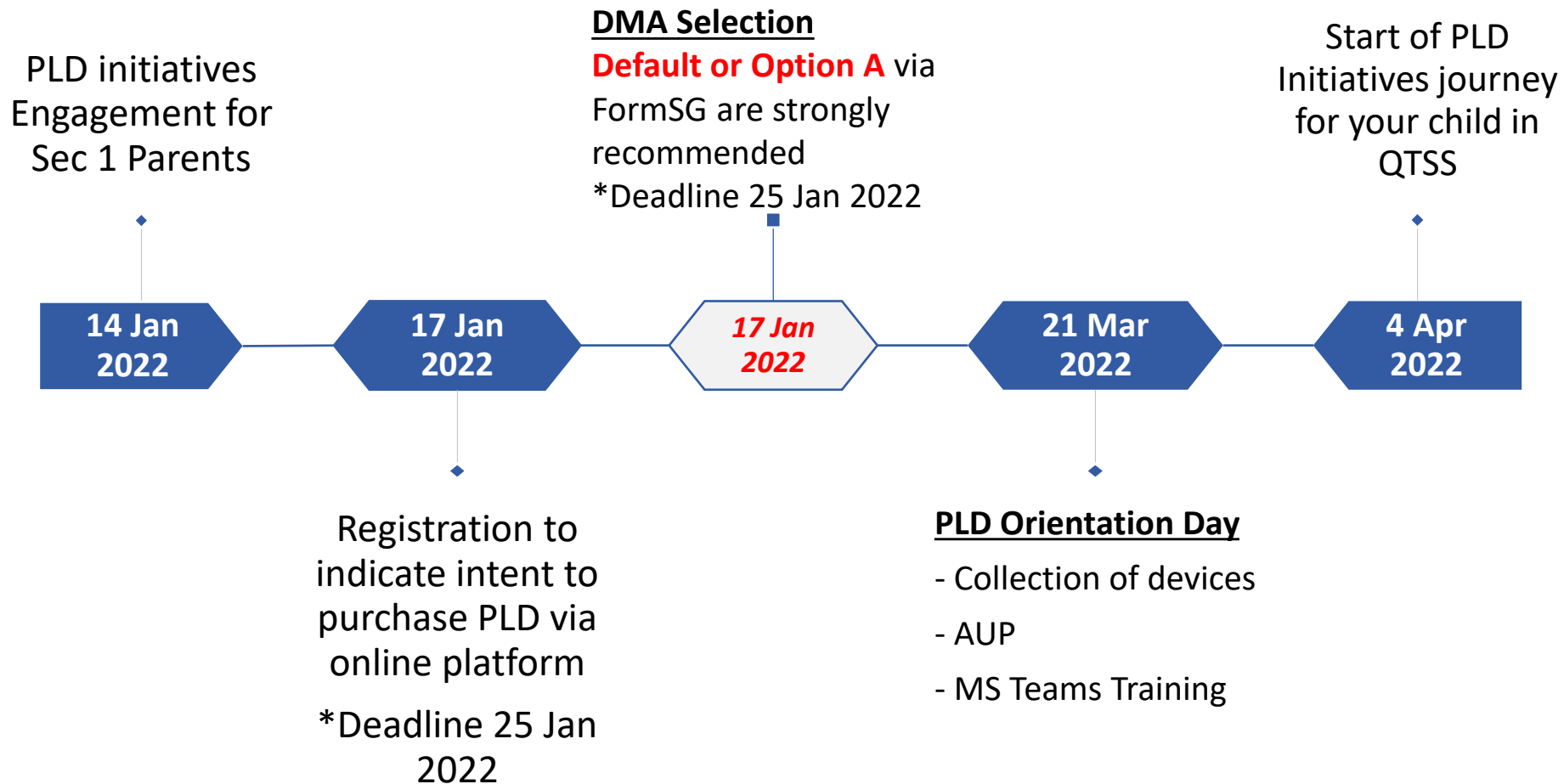
Per Capita Income (PCI) \leq \$690

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.

What's Next?

PLD Initiatives



Collection of Devices

Your child/ward will be collecting his/her device in school **on 21 Mar 2022 (tentative)**

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.
- **Therefore, we recommend to let your child collect the device in the school.**

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.

WHAT'S NEXT?

Important Contacts / Helplines

To access / find out more about...	Contact / Helpline
This deck of slides	https://www.queenstownsec.moe.edu.sg/parent-links/pld-initiatives/
Edusave balance	6260 0777
Financial assistance	64741055 (Ms Carol Goh)



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Personal Learning device roll-out day 2021



Thank you