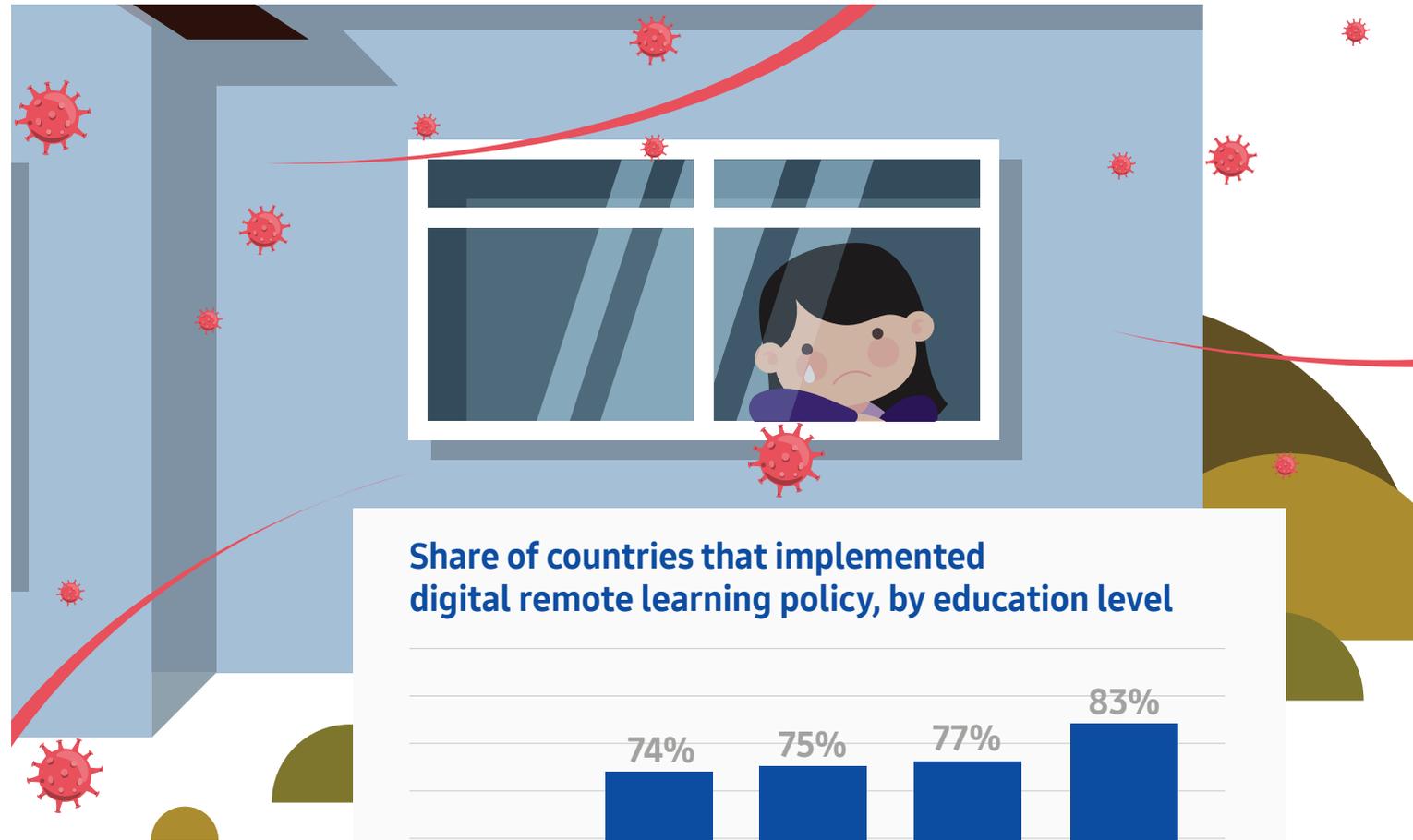SAMSUNG

# Empowering Future Generations Through Hybrid Learning

Pandemic Hit Education

The advent of the COVID -19 pandemic had completely upended the traditional way of teaching. Schools were no longer able to conduct physical classes as they had in the past, but had to adapt to a new normal where students had to complete their lessons remotely via the Internet.

The theoretical and experimental pedagogy in integrating technology into the classroom is suddenly becoming a reality. Instructional materials, classes, and lectures are being digitised into online formats that students can consume anytime, anywhere. Teachers have had to innovate how to deliver lessons over the Internet, while parents have struggled to ensure their children have appropriate devices and technological know-how to participate in online classes.
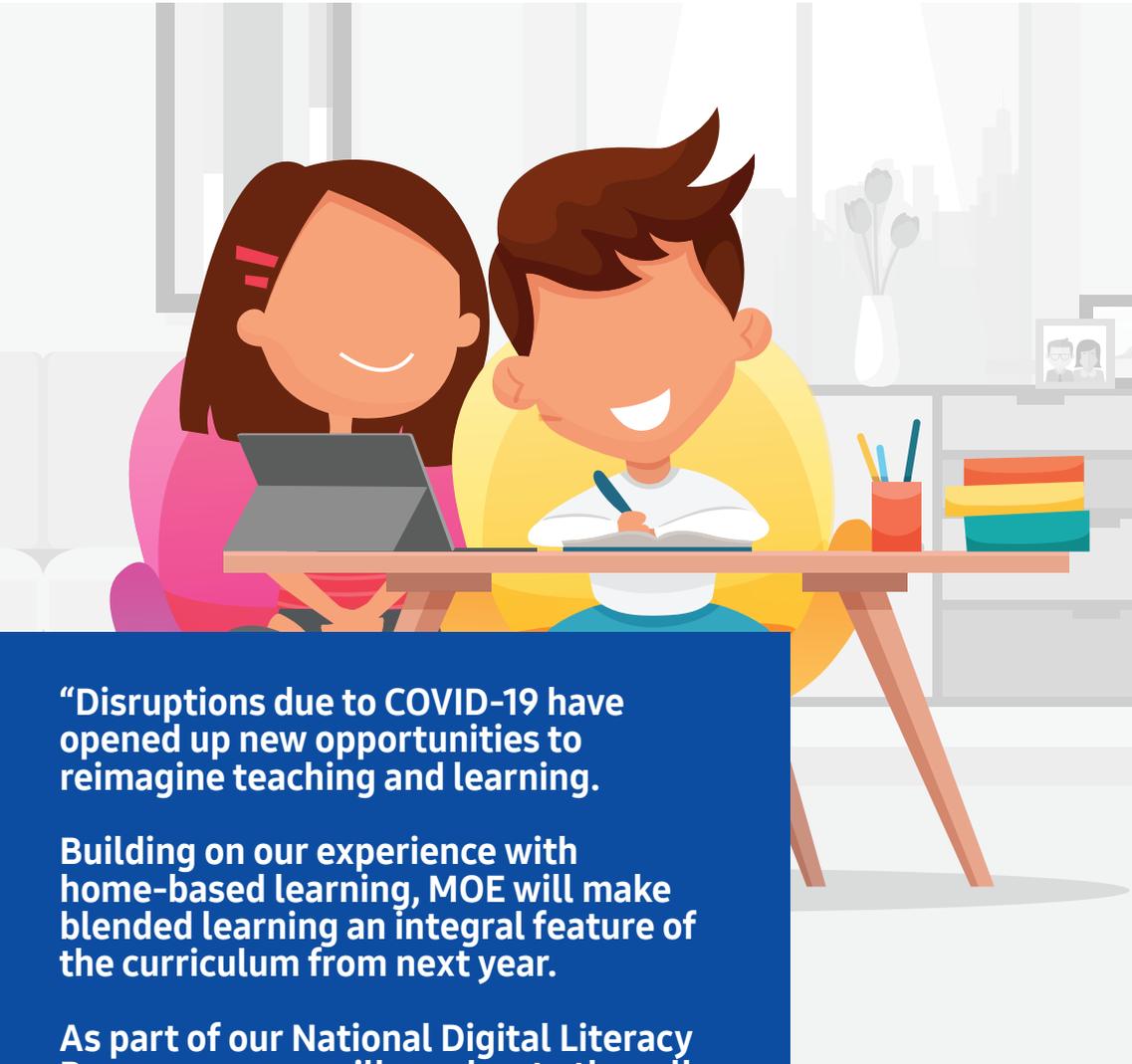
Share of countries that implemented digital remote learning policy, by education level

Pre-Primary	Primary	Lower Secondary	Higher Secondary	Any Level Of Education
42%	74%	75%	77%	83%
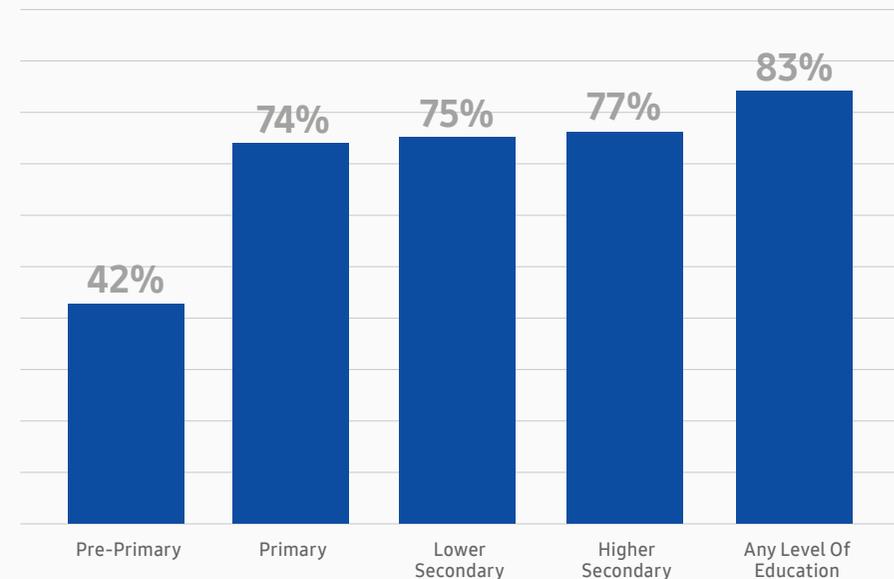
United Nations Children's Fund, "Covid-19: Are children able to continue learning during school closures? A global analysis of the potential reach of remote learning policies using data from 100 countries." UNICEF, New York, 2020.

Read More : https://data.unicef.org/resources/remote-learning-reachability-factsheet/

New Normal
New Pedagogy

As Nelson Mandela famously said, "Education is the most powerful weapon you can use to change the world."

While we are trying to make online learning so good that it can replace traditional face-to-face lectures due to the uncertainties caused by the pandemic, we are also essentially forcing a change in the way school is physically conducted when closures and restrictions are lifted.

Supplementary lessons can now be delivered independently, with students dictating the time and pace of learning without being affected by the progress of their classmates.

Since every student would have a digital device, face-to-face teaching can now be complemented by the innovative use of information and communication technology. Lessons can now be recorded for students to review at home. Teachers can also individually review students who are behind compared to the rest of the class.

After years of discussion and advocacy, Hybrid Learning is finally here.

"Disruptions due to COVID-19 have opened up new opportunities to reimagine teaching and learning.

Building on our experience with home-based learning, MOE will make blended learning an integral feature of the curriculum from next year.

As part of our National Digital Literacy Programme, we will accelerate the roll out of personal digital learning devices to all secondary school students by end-2021."

Press Release (25 August 2020):
Addendum To The President's Address
Mr Lawrence Wong, Minister for Education
Singapore

Hybrid Learning

Hybrid Learning describes the pedagogy of combining traditional classroom experiences, experiential learning objectives, and digital content delivery, adapting the best mix of both depending on the topic and the needs of specific groups of learners.

While there are many forms of Hybrid Learning developed for classroom use over the years, one in particular has emerged to dominate the future classroom due to national lockdowns across the world: the "Flipped Classroom" hybrid learning model.

Flipped Classroom

Flipped Classroom (also known as flipped learning or flipped teaching) is a form of hybrid learning that uses technology to streamline learning in a classroom so that a teacher can spend more time interacting with students rather than lecturing. This is typically done with teacher-created videos that students watch outside of class time.

Traditional Classroom
• physical lectures
• absentees misses lectures
• linear class-paced learning
• test-based grading
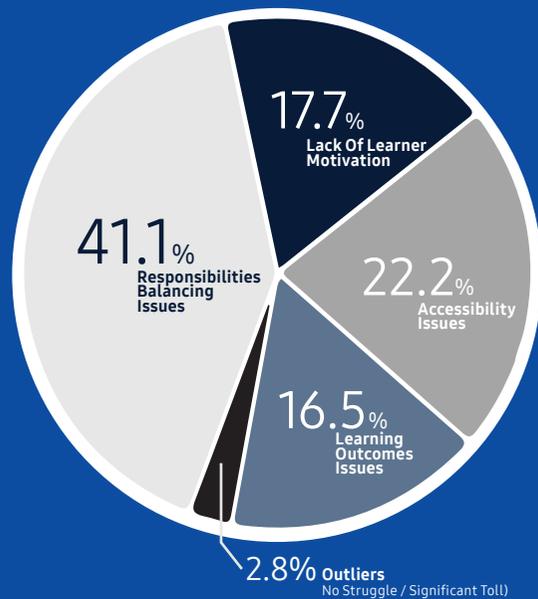• equal attention to all students

VS

Flipped Classroom
• video lectures
• absentees catch up class via video lecture
• self-paced learning
• mastery-based grading
• increased attention for weaker students

Learning Continues Regardless Of Lockdown or Restrictions

Biggest Challenge Cited Amongst Parents' Struggles With Remote Learning

17.7% Lack Of Learner Motivation

41.1% Responsibilities Balancing Issues

22.2% Accessibility Issues

16.5% Learning Outcomes Issues
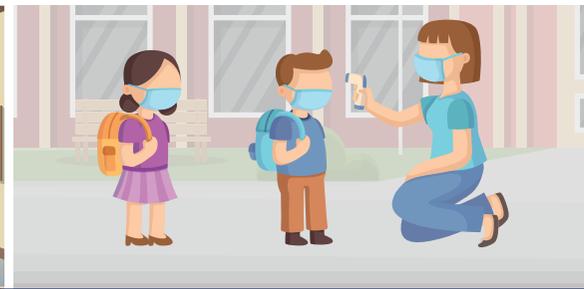
2.8% Outliers No Struggle / Significant Toll

Garbe, Amber, Uzeyir Ogurlu, Nikki Logan, and Perry Cook.
"Parents' Experiences with Remote Education during COVID-19 School Closures".
American Journal of Qualitative Research 2020 4 no. 3 (2020): 45-65.
https://doi.org/10.29333/ajqr/8471

Full School Closure

- No physical lessons
- eLearning
- Online communications

Partial Reopening

- Reduced physical school hours
- Alternate weekly between eLearning and school
- Optional attendance of physical lessons

Full Reopening

- Full-day school
- Social distancing required
- Use digital devices to avoid sharing of educational material

Normalised

- Full-day school
- Blended/hybrid learning
- Digital devices to be an integral part of education pedagogy

Technology Enabled Learning

With technology, learning can be done anywhere, such as listening to lectures on the way to school.
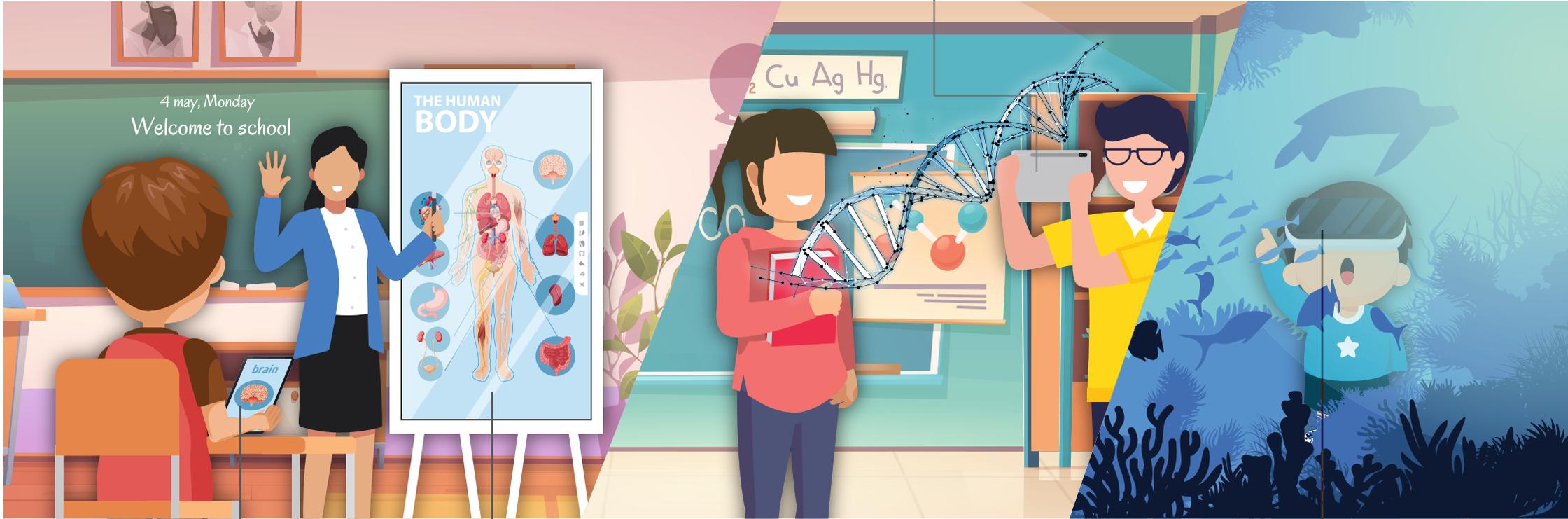

Recap lessons and lectures via video recordings at their own pace.

Do schoolwork digitally with the S Pen, which replaces pencils and pens.

Social distancing measures can be reinforced with smartwatches

Participate in class via an online learning platform.

Tablets and mobile devices provide easy and secure access to learning materials.

Augmented reality can add a dynamic visual dimension to enhance the learning experience.

Tablet replaces textbooks and opens up new ways to learn.

Digital flip chart / whiteboard could add a lot more interactivity and flexibility into the teacher's arsenal.

Virtual reality will provide immersive experiences that no other educational tool could replicate.

Case Study

Samsung enables Quezon City government to implement the newly adopted distance learning modality of the Department of Education.

Government of Quezon City
Philippines

Background: The COVID-19 pandemic brought unexpected and monumental changes, disrupting nearly all aspects of our societies. To ensure and protect the health and safety of their students, teachers and staff, institutions in the education sector had to shift from a traditional face-to-face interaction in the schools to a remote learning and teaching model.

Quezon City 's Learning Continuity program seeks to ensure that 176,000 students in grades 7 through 12 from 58 public high schools are provided with learning resources equivalent to those of their peers in private schools.

Requirements:
• Tablet that meets the minimum required specifications.
• Hardware provider must be a global brand with at least five service centres within Metro Manila.
• Ability to customise the tablet with the official logo of Quezon City as well as restrict the use of the device for learning purposes only.
• Protection of data from theft or loss.
• Good product and technical support to be provided.

Solution: With Samsung's end-to-end solution, which includes Knox Configure, the government can ensure that tablets are only used for educational purposes as it moves towards a secure digital transformation.

Minimise student's distractions
To keep students focused on their learning, the department opens up learning opportunities while blocking access to certain websites and apps that violate school policy. Students are restricted from making changes to menu settings, wallpapers as well as animations to prevent unnecessary technical issues.

Easy deployment.
Knox Configure helps to build excitement while simplifying deployment process. The solution recognizes the student's assigned tablet and preloads all controls and apps based on the pre-configured profile and policies by the schools once the student opens the box and connects the tablet to the internet.

Simplified support.
Whenever a technical issue arises, students can easily get help and assistance from the expert customer service team via phone, email or even at one of the nationwide accredited service centers. In addition, in the event of theft or loss, student data can be secured by locking the device or remotely resetting it to factory settings.

Results: Students are now offered a modern digital experience that makes learning more enjoyable and productive.

Customized content.
With Knox Configure Quezon City Government was able to customize the uploading of digital learning modules per grade level.

Learn anytime, anywhere.
In partnership with Globe Telecoms, 176,000 data sim cards for the tablets were distributed to the public junior and senior high school students. The data sim cards will be loaded with 10GB data monthly to allow students to access learning materials online.

New learning opportunities.
Tablets open up new learning opportunities and students are self-motivated to use them all.

"With all the challenges that our public school students face under these new learning conditions, at least we are assured that their Samsung Galaxy Tab A devices will be able to meet the demands of long term use. They are a leading technology brand for a good reason."

Joy Belmonte
Quezon City Mayor

SAMSUNG Knox

Acquisition Policies

A standardised set of Samsung devices used throughout the school has the best cost-benefit ratio. The ease of management and minimal technical issues allow both teachers and students to focus fully on teaching and learning.

Types of Policy

① Students are free to choose their device
No restrictions or requirements on type/brand of devices to buy

② Parents or students to purchase from a pre-approved list of devices
Institutions to shortlist devices that offer similar features/capabilities

③ Institutions decide and procure devices for school-wide use
Institutions decide on a standardised set of Samsung devices to be used by all teachers and students

Benefits To Institution

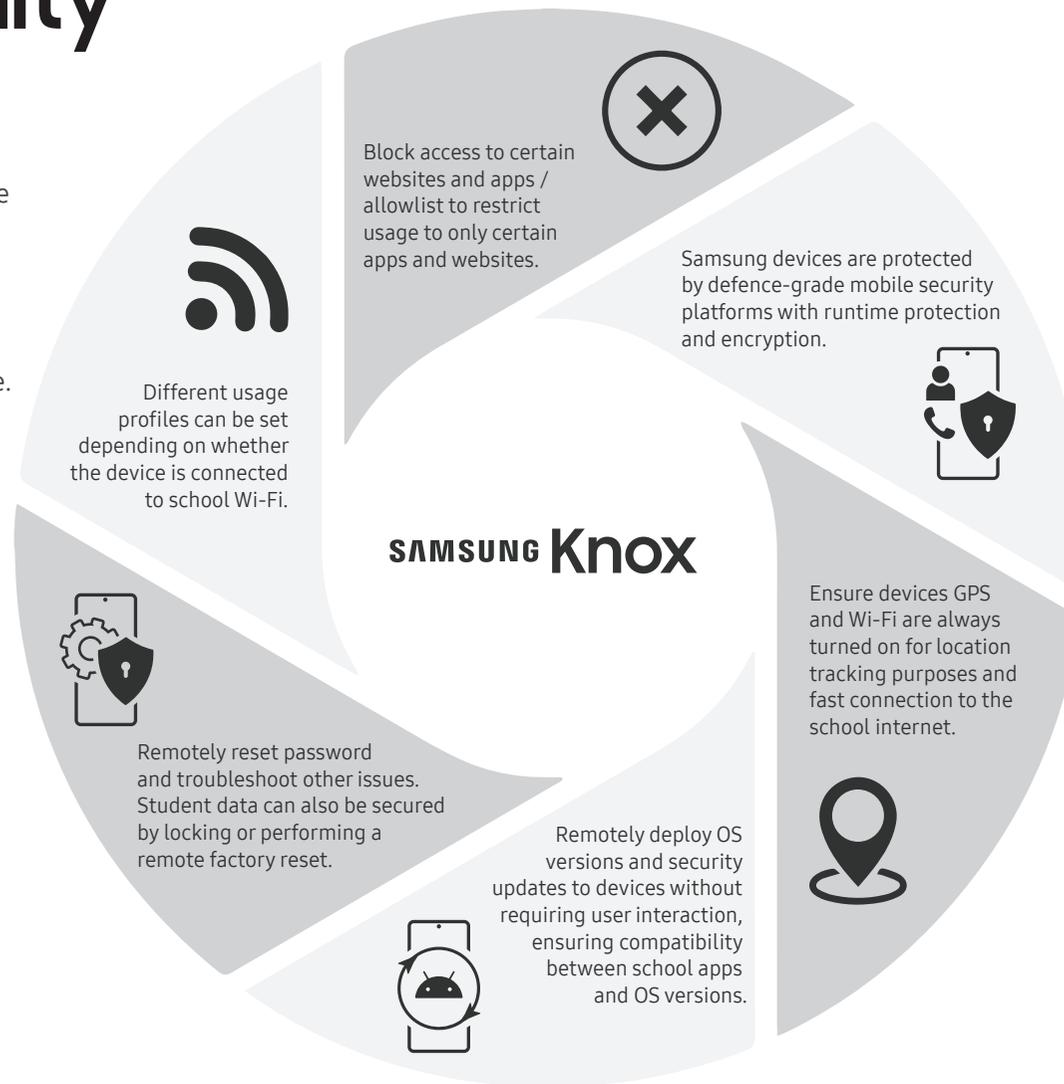|	1 Procurement responsibilities	2 Procurement cost to be borne by school	3 Ease of onboarding for new devices and users	4 Device incompatibility issues	5 Amount of technical issues expected and resources needed to address them	6 Control over software updates	7 Adapting digital educational content to the number of operating systems & devices	8 Mobile device management with Enterprise Mobility solutions such as Samsung Knox	9 Unexpected technical problems to be overcome by students and teachers that distract from classroom work
①	👍	👍	👎	👎	👎	👎	👎	👎	👎
②	👍	👍	👍	👍	👎	👎	👎	👎	👎
③	👎	👎	👍	👍	👍	👍	👍	👍	👍

Put Student
Security First

Samsung devices are designed from the hardware chip up to be protected with defense-grade level security. Designed based on the way people use their devices, Samsung Knox's multi-layered security ensures that the protected materials and sensitive information of educational institutions and schools are safe from malware and malicious threats.

All data is securely encrypted by default using a government-certified encryption module, so data is not compromised in the event of device theft or loss. Personal data can also be completely and securely isolated within the device to ensure personal privacy.

Samsung Knox Manageability

Samsung offers a zero-touch deployment service that allows IT admins to quickly enrol a large number of devices across the cohort or institution. Once an IT admin registers a device with the service, the student or teacher simply turns it on, and the device is automatically configured over-the-air based on the assigned profile.

Block access to certain websites and apps / allowlist to restrict usage to only certain apps and websites.

Samsung devices are protected by defence-grade mobile security platforms with runtime protection and encryption.

Different usage profiles can be set depending on whether the device is connected to school Wi-Fi.

Ensure devices GPS and Wi-Fi are always turned on for location tracking purposes and fast connection to the school internet.

Remotely reset password and troubleshoot other issues. Student data can also be secured by locking or performing a remote factory reset.

Remotely deploy OS versions and security updates to devices without requiring user interaction, ensuring compatibility between school apps and OS versions.

SAMSUNG Knox

Samsung devices are perfectly positioned to help schools and educational institutions seamlessly transit into an Education 3.0 ecosystem. A standardised Samsung ecosystem, built from the ground up with security and manageability in mind, enables rapid deployment, mass remote configuration and highly secured interoperability and connectivity between devices like no other.

Securing Your Digital Future With Samsung

Tablet

Tab S6 Lite

Tab S7

Tab A

Mobile

A Series

S Series

Note Series

Wearables

Galaxy Watch

Galaxy Watch Active

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