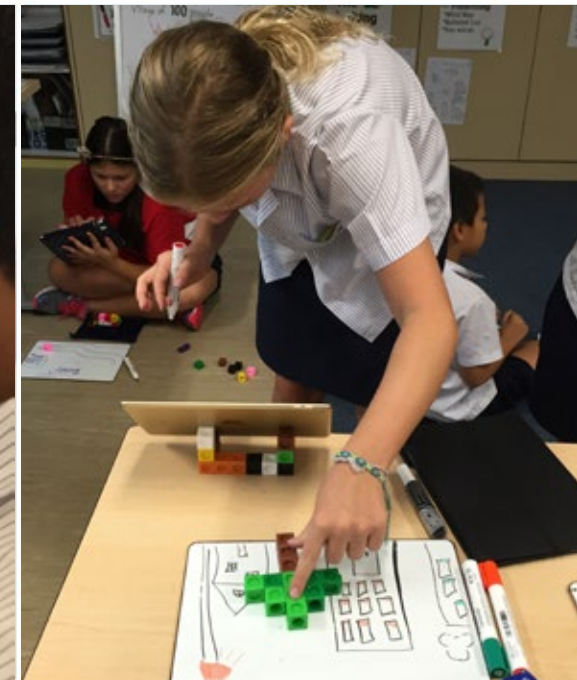ONE
TO WORLD

iPad Programme

The iPad is being used as a learning tool at CIS successfully because it is mobile, highly intuitive and engaging. With the support of Digital Literacy coaches, teachers in the Primary School have been using this device to transform teaching and learning by applying best practice models and standards such as the SAMR model, the International Society for Technology in Education (ISTE), CIS Mission, the IB Programme, and Common Sense Education Digital Citizenship.

LEARNING
WITH IPADS

- 2013 - a pilot programme begins in three Grade 4 classes (two at Lakeside, one at Tanjong Katong)
- 2014 - after the successful pilot programme, all Grade 4 students embark on the One to World programme
- 2015 - the One to World programme expands to include all Grade 5 students
- 2016 - the One to World programme expands to include all Grade 6 students
- 2016 - a pilot programme is introduced in Grade 3 (both campuses)

Technology becomes a tool that facilitates learning and makes lessons more engaging, with broader digital literacy skills embedded into the curriculum. Students can easily capture their learning, reflect on it in a variety of ways, and share it with an audience that is potentially beyond the classroom walls. Access to iPads across all academic areas is leading to increased opportunities for meeting the diverse needs and learning styles of our students.

RESEARCH

Technology Trends in Education

In recent years, there has been a shift in education away from technology as a stand-alone subject and towards it being used as a tool that is integrated across the curriculum. Rather than devices just being confined to labs, they are being placed in classrooms with students so that they can be used authentically, in the moment, to support the curriculum. In the past, the teaching often centred around technology skills such as typing, word processing, photo and video editing, etc. Forward thinking schools use digital tools, not just to teach tech skills, but to support 21st century learning skills. These have been developed by the ISTE and supported by documents from the IBO. CIS, like many other schools, recognises the importance of the link between education and technology. We have put a structure in place to provide a more comprehensive technology integration curriculum and to support classroom teachers with the use of technology in the classroom.
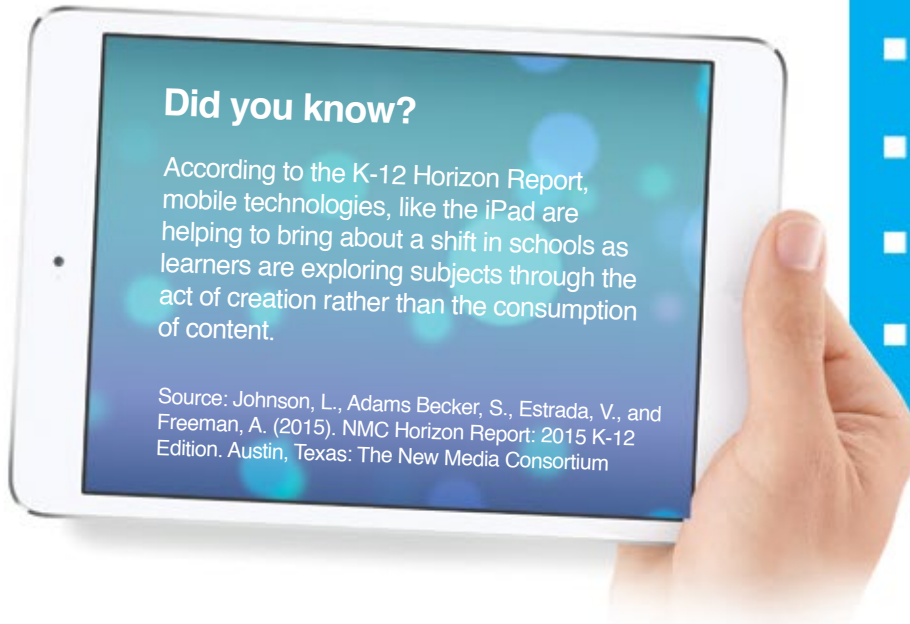
The New Media Consortium (NMC) publishes the Horizon Report each year, which looks at trends in educational technology. Mobile learning was identified as one of the key trends in their 2012 K-12 report. They wrote that:

"[m]obile learning is an integral part of K-12 education, as it is increasingly common for students to own and use portable devices. With easy to use, touchscreen interfaces, even the youngest can easily pick up a tablet or smartphone and interact with it almost immediately. Mobile devices are gateways to endless learning, collaboration, and productivity fostered by the Internet. In recent years, schools have been implementing one-to-one and BYOD strategies to take advantage of mobile technologies that are more accessible and pervasive with each passing year" (p.4). Because of their portability, flexibility, and natural intuitive interfaces, iPads are especially enticing to schools, and a growing number of them have turned to tablets as a cost-effective strategy for one-to-one learning - a systematic solution in which every student is provided a device that can be used to support learning in and outside of the classroom. In many regions of the world, students come to class already familiar and comfortable with the technology."

RESULTS

Case Studies

Although mobile devices like the iPad have only been available for a few years, schools worldwide have been quickly implementing them in the classroom with enormous success. With careful planning and vision, mobile learning devices have helped to achieve a number of positive results, including increased engagement, creativity, collaboration and opportunities for differentiated learning.

Did you know?

According to the K-12 Horizon Report, mobile technologies, like the iPad are helping to bring about a shift in schools as learners are exploring subjects through the act of creation rather than the consumption of content.

Source: Johnson, L., Adams Becker, S., Estrada, V., and Freeman, A. (2015). NMC Horizon Report: 2015 K-12 Edition. Austin, Texas: The New Media Consortium

A recent study by the University of Hull in Scotland found that the implementation of the iPad as a personal learning device significantly transformed access and use of technology inside the classroom with many benefits such as:

- Many teachers noted that ubiquitous access to the Internet and other knowledge tools associated with the iPad altered the dynamics of their classroom and enabled a wider range of learning activities to routinely occur than had been possible previously.

- The device also encouraged many teachers to explore alternative activities and forms of assessment for learning.

- Teachers and students used iPads daily in most lessons without the need for extensive formal training on how to use the devices.

- Student centred learning and collaboration between teachers and students has increased in classrooms.

- iPads enabled more students to express their creativity, to engage in peer assessment and in group critique.

- Teachers were able to extend homework and provide better feedback to students about their learning.

- Parental engagement with the school and their child's learning increased when the iPad traveled home with the students.

Bring Your Own iPad

As of August 2016, all students in Grades 4 to 6 bring their own iPad to school as part of the One to World programme.

Why do parents have to provide the iPads?

Unlike many other local and international schools who charge a technology fee and provide a device, we recognize that many families already have iPads. By requesting students to bring their own iPad, we reduce the need for an additional fee and avoid adding more devices to the ecosystem.

In addition, one of the key conclusions from the case study above was that when students feel a sense of personal ownership of the device, they have increased motivation, interest and engagement and are encouraged to be more autonomous and responsible for their own learning.

Requirements

Which model and accessories are necessary?

- any iPad model which supports the most recent iOS
- a **minimum of 32GB** required (As the iPad will be used for 3 years, we strongly recommend 64 GB of memory)
- protective case (like the Griffin Survivor case) is strongly recommended
- stylus
- headphones or earbuds with built-in microphone
- wireless keyboard (with case) is recommended for Grade 6 students

If we have an older iPad at home, can my child bring that one?

If you already have an iPad at home, your child can bring it as long as it supports the latest iOS. It is recommended that the iPad is dedicated to that student, rather than bringing in the family iPad. Please ensure all photos, videos, music and other data has been removed prior to the start of school.

Where can we buy an iPad if we don't already have one?

- Apple's Education Store http://www.apple.com/sg_edu_4911/shop (student discounts available)
- Any other preferred retailer

Apple IDs and Required Apps

Parents are responsible for creating an Apple ID in the Singapore iTunes store. This is necessary because Apple IDs from other countries may not support the school required apps.

It is recommended that a $50 gift card is attached to the account for the school's required paid apps which can be purchased from local retailers such as: Courts, Challenger, Epicentre, 7-Eleven, Cheers, Harvey Norman, iStudio, Nubox or online via the Singapore iTunes store.

The list of required apps can be found at: http://bit.ly/cisipadapps.

Practicalities

What happens if my child forgets their iPad at home?

Students are expected to bring their iPads fully charged to school each day. This could be an area where your child needs your help establishing their daily routines. Chargers will be available in classrooms for emergency charging needs.

What happens if the iPad is damaged or my child loses it? Should we insure it?
CIS strongly encourages all families to insure their iPads for loss or damage. Alternatively, you may want to check your own home insurance policy to see if you have insurance coverage under that policy.

Where will the iPads be kept when at school?
There will be charging stations in each classroom, as well as cabinets that lock during recess, lunch and downtime storage. During class time the students will keep their iPads with them at their desk so they are easily available.

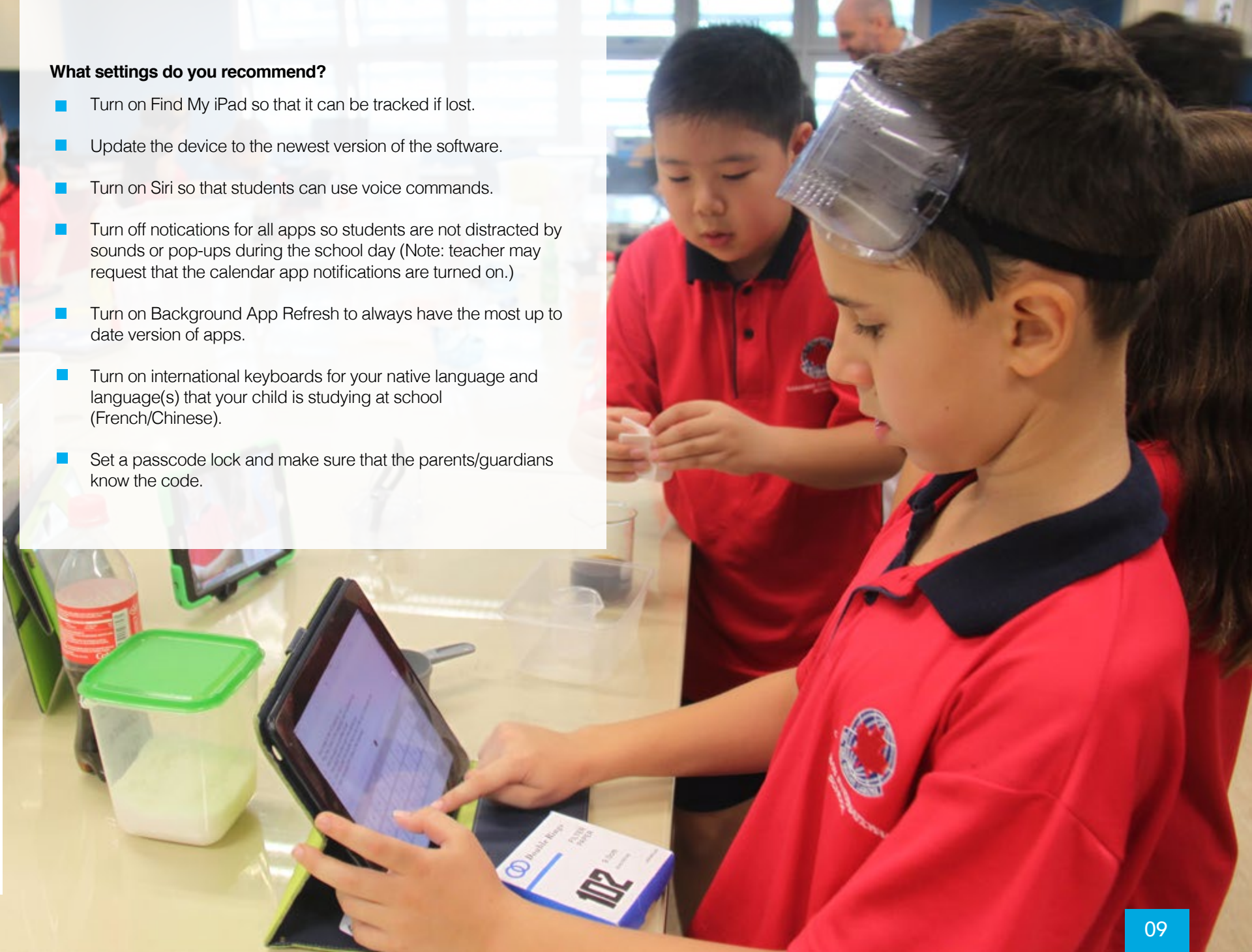**What are the expectations for students and families?**

- Bring the iPad to school each day fully charged. Students will need to charge their iPad each evening. A fully charged iPad should last the school day (8-10 hours battery life).

- Have the apps installed and updated. We encourage students to only have the required educational apps on their iPads. However, should you wish to add personal apps, these need to be in a separate folder and managed by the family to ensure that they do not interfere with learning. If personal apps hinder learning, teachers may request they be removed.

- Balance is important: Only use the iPad for school related activities during the school day. Unless asked for a specific academic purpose by a teacher, students will not take their iPads outside of the classroom during recess, lunch or other break times.

- Keep the iPad in its case at all times. To prevent the possibility of the iPad getting damaged, students must never remove the protective case.

- Keep the iPad in the designated area in the class and be responsible for its care.

- Keep the iPad safely stored in their backpacks when transporting between home and school.

- Students should keep liquids away from their iPads to prevent possible water damage.

- Turn on lock screen and only share passwords with the teacher and parents. During Boot Camp led by the Digital Literacy Team at the beginning of the school year, students will be shown how to turn on the lock screen and how to personalize both the lock screen and Home Screen Wallpapers. If a password is compromised, students will be asked to change the password.

- Follow the school's Acceptable Use Policy and demonstrate that they are good digital citizens.

- Always follow the instructions of the teachers regarding the use of iPads during class time. When not being used, iPads should be put to sleep with screens down to avoid any distractions.

What settings do you recommend?

- Turn on Find My iPad so that it can be tracked if lost.

- Update the device to the newest version of the software.

- Turn on Siri so that students can use voice commands.

- Turn off notications for all apps so students are not distracted by sounds or pop-ups during the school day (Note: teacher may request that the calendar app notifications are turned on.)

- Turn on Background App Refresh to always have the most up to date version of apps.

- Turn on international keyboards for your native language and language(s) that your child is studying at school (French/Chinese).

- Set a passcode lock and make sure that the parents/guardians know the code.

Teaching and Learning

Will there be any training for students on how to use the iPad?
Students will participate in a Boot Camp led by the Digital Literacy team at the beginning of the school year. This time will be used to guide students through how to use the device, and more importantly, how to be good Digital Citizens when using technology. Throughout the year, Digital Literacy Coaches will continue to support teachers and students in harnessing their new technology to engage, enlighten and empower them as learners. The proper care of iPads will also be discussed throughout the year including how to travel with the iPads to and from school as well as within school.

How will the iPads be used in the classroom?
Each student will have his or her own device, making the use of technology more seamless and authentic. This does not mean that students will use these devices all day long. We are very mindful of balancing screen time on iPads with other classroom tools. Teachers will have more opportunities for transformational learning experiences (capturing student thinking, video reflections, regular sharing to student digital portfolios, collaboration and feedback, innovative assessments, engaging and interactive reading, writing and curriculum practice, etc.).

Will students still use books?
There is no plan to eliminate textbooks and exercise books at CIS. Students will still need to be exposed to a wide range of learning resources and practise basic skills such as printing and writing. However, iPads allow for more engaging and interactive content and support a shift towards a paperless classroom.

How will the iPads change students' homework?
Homework will continue to follow the homework policy that is stated in the Student Handbook. As before, students will be required to check their email and a Learning Management System for assignments and instructions from the teacher. As the iPads will be going home each day, students will be able to share their learning experiences with their parents.

How much time will students spend on the iPads?
At CIS we believe in fostering balanced students and teachers. Therefore, they will continue to be provided with variety of learning activities including those with and without the use of the iPad. The devices will be used when the teacher feels they will extend the learning situation. We have found that generally students are principled and balanced in their own use of the iPads.

Will my child have access to a computer at school?
Students will continue to have access to Computers on Wheels (COWS) as we recognise that laptop computers still have their place in the classroom. Most digital work will be done on the iPad but teachers can access computers when they are the right tool for the job.

Will I still need a laptop/desktop computer at home?
The iPads are not meant to be a complete computer replacement but they should be able to do a majority of the required tasks.

What kind of apps will students be using?
Most of the apps are flexible and provide students with different ways to demonstrate their learning. They will also use creativity apps, which allow them to go deeper in their learning and provide multiple ways to show their understanding. There will be content-based apps used for skill practice and consolidation.

How often will students need to add new apps to their iPads?
Students will need to add educational apps to their iPads at the beginning of the school year. One of the benefits of the iPad as a learning tool is that educational apps are constantly being created. We will continually research and review new apps. Occasionally during the year, we may determine an app would be highly beneficial to a learning outcome and ask that it be added to the iPad.

Digital Citizenship
What will the school do to safeguard students when using the iPads?
CIS takes digital citizenship very seriously. Students will participate in an iPad Boot Camp during the first week of school, which will teach digital citizenship. During this time, the Acceptable Use Policy (AUP) will be reviewed with students. Parents are also encouraged to review the policy, which can be found in section 6 of the Parent Student Handbook was is available on our website (cis.edu.sg) under the Student Life section. Just follow the link for the Student Support page to the Laptop and iPad Use tab. CIS follows the Common Sense Media curriculum for digital citizenship and all Digital Literacy coaches and some teachers are Common Sense Media educators. Digital citizenship is practiced and modeled throughout the year.

Will the Internet be filtered when using the iPads?
At CIS, an extensive firewall has also been put into place to filter sites that are not appropriate for students. However, firewalls do not block everything, and the digital citizenship programme will continue to focus on behaviour and making good choices versus trying to block every single site which is impossible.

This is a learning decision, not an iPad decision.

The learning landscape and tool kit has changed and we need to be at the forefront of the change, providing the right opportunities for our students when it comes to career choices ten to fifteen years down the road.

Questions/Comments?

If you have any questions or comments, please contact us at digital.literacy@cis.edu.sg

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