Secondary BYOD One2One Update

Cooloola Christian College is continuing with plans to become a fully One2One Secondary School. We have already seen many benefits of the One2One program and our teachers are embracing this as an effective addition to their teaching skills and tools.

There are a variety of suitable devices available to students. While we recommend the Microsoft Surface, alternatives are suitable. However, parents should ensure they purchase a laptop device (as opposed to a tablet, eg iPad or Galaxy Tab which are the least suitable for students to use for their studies).

Implementation Timeline

2016: All Secondary students have been encouraged to purchase a recommended device

2017: Year 11 and 12 students are required to have a device, as well as students in Year 9 or 10 studying Graphics or Digital Technology. All other Secondary students are encouraged to buy a device.

2018: All Secondary students are required to own a device and bring to school every day.

Want to Know More?
Email your questions and comments to one2one@cccympie.qld.edu.au

IT Security Tags

The IT Department has security tags available for attachment to individual student’s devices. A tag can be securely attached and both the tag number, device serial number and name of the student recorded should the device become lost or stolen. Student’s can go to the IT Department to register their device and have the tag attached.

Student Help Desk

The student help desk is open each break. Students can bring their device to get assistance during breaks. Please come to the IT office in A Block.

Implementation Timetable

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R = Required    T = Transition

BYOD—Computer

IT – SPECIFICATIONS (Minimum)

- WiFi – 5GHz compatible
- Processor – i5 or equivalent
- RAM – 4GB
- HDD – Solid State (128GB)
- Warranty – 3 Years (Preferably with Accidental Damage Cover)
- Windows 10 or Equivalent
- Capable of running the full version of OneNote
- Case / Bag or similar for protection and transport
In 2017 CCC is adopting a new School Management System and Learning Management System which will improve the quality of service we can give to our students and families. This new SMS/LMS will provide students with timely information about class changes, upcoming homework and assessments, feedback from teachers as well as reminders about upcoming events. Much of this information will also be available to Secondary parents through the integrated online Parent Lounge.

There will certainly be a period of transition as we implement a new system and we would appreciate your patience as we develop our skills and as we introduce each of the new features.

Student information available to parents includes:
- Homework
- Activities due
- Progressive results
- Academic reports
- Timetable
- eDiary
- Attendance

**Yr 9/10 Digital Technology and Robotics**

CCC robotics program has finally started with the 9/10 Digital Technologies class. With our new Ebot robots from Steminabox, the students will learn coding, distance and ratios, teamwork, collaboration and critical thinking skills. Students are looking forward to learning all the skills required to finish off the unit with a search and rescue competition.

Year 7’s had the privilege of being the first to use the new 3D printers this year. They let their imaginations follow and produced some great objects including name tags, robots, a wheelchair and Joel Harris with a Star Wars fighter. 3D printing is a great way to engage the students in the Design and Technology curriculum as it allows them to explore their creativity in a new and exciting way.
IT Infrastructure Upgrade

NBN

As part of the College’s business continuity process, we have installed a fall-back NBN cable that will allow the College to function if there is a breakdown in the lines between the College and our Internet Service Provider (ISP).

The line doesn’t have the same functionality as our main resources, but will enable the College to function administratively, should an outage occur between Gympie and our main service.

Power Outage

We have introduced several Uninterrupted Power Supply (UPS) devices into various strategic areas so that should there be a massive power failure, we can still function; albeit, for a limited time.

A mobile generator can be used to extend the functionality of the system, but this would obviously depend on available assets, at the time. Using a generator through a UPS system removes the potential for spikes, as the UPS is designed to regulate the power supply to the servers, switches or other devices.

Wireless

Wireless coverage now extends throughout the main areas of the College. The system is designed to comply with current Australian safety standards for EMF emissions.

The wireless networks are split between staff and students and again for primary and secondary users.

The system is set up so that a person moving through the College may access (automatically) the closest and strongest relevant wireless system. There were some difficulties, earlier in the year, but we have resolved these so that the system is now stable.

Our firewall is currently looked after by a 3rd party and we have regular contact to identify problem areas and to run checks on the various sites that all users are attempting access. Reports are delivered overnight that detail any blocked sites or prohibited searches undertaken within the previous 24 hours.

Screen Connectivity

There were some issues with wireless connectivity to projectors or TVs in classrooms earlier in the year, but we have managed to work through the problems and identify solutions.

We have expanded the use of wireless connectivity in the Primary area so that all projectors and TVs can be accessed from the Teachers device without any need for cables. This allows the Teacher to position themselves anywhere in the classroom and still be able to show things on the smartboard or TV.

We are currently looking at a system that will allow for remote diagnostics or updates to certain wireless devices so that IT can manage a problem without attending the classroom; this minimises disturbance in the teaching area and will save time.
CCC’s One2One (Secondary) and iPad (Primary) initiatives are providing many opportunities for students to develop essential digital literacy skills in an increasingly digital world. Our ongoing commitment to classroom resourcing and high quality teaching ensure that students acquire skills and understandings to operate and communicate safely and successfully in a complex digital age.

As NAPLAN moves from ‘pen-and-paper’ to an online assessment platform in the next 3 years, our teachers will ensure students are well prepared for this new national initiative. Students will increasingly be exposed to focussed teaching of essential skills with regular opportunities to explore a growing variety of digital assessments and operate a range of technical devices through the next year.

Parents can explore NAPLAN Online in example practice tests via a Public Demonstration site by clicking this link: NAPLAN Online

Additional information is available via Understanding NAPLAN Online: Understanding NAPLAN Online

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STEM ACADEMY

Junior STEM Academy Students Having a Ball!

From creating original robot art to navigating mazes, our 12 Academy students are getting to access cutting edge technology as part of our pilot program for the STEM Academy. Thanks to volunteer facilitator, Mr Andrew Smith, students are learning coding this term using Lightning Lab and our newly acquired Sphero Balls. These little robots are an amazing waterproof ball filled with a plethora of sensors, lights, motors and controls. Mr Smith is helping the Year 4, 5 and 6 participants learn the basics of coding through a series of engaging challenges including creating abstract paintings. Ethan Matulich (Year 5) said, “I love STEM and especially enjoyed doing the paintings. I would like to either be a scientist or a policeman when I leave school.”

Esther Davies (Year 5) shared, “I’m really enjoying the STEM Academy and in particular the robotics. I’m learning so much about coding. When I grow up, I would like do Veterinary Science.”

In 2017, CCC plans to run a full year of the Junior STEM Academy, with a different learning focus for each term and we think the sky is the limit, especially as one of the topics will be the science of flight.

When asked about the Academy, Head of Primary, Mr Ross Waltisbuhl said, “Science and Maths have been an academic area of strength for CCC over the last 10 years. We have seen many of our students graduate with high OP scores mostly through Maths and Science courses. Our primary and secondary staff have provided excellence in teaching Science, Maths and Technology so a STEM Academy was the next logical step.”

The Australian government and State Education authorities have, over recent years, promoted STEM for students and there are many study opportunities and career paths in STEM, especially for girls.

CCC has recently published a strategic plan for the next 3 years and beyond. Within the key area of Teaching and Learning, we have agreed on the following objective: “CCC will provide innovative STEM extension opportunities to enrich and challenge critical thinkers and problem solvers.”

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CCC JUNIOR STEM ACADEMY

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