

Northcote College students take control of their own learning with digital tools that foster innovation and collaboration.



HP and Microsoft provide 21st-century learning platform for students to explore, create and apply knowledge within the classroom.

INDUSTRY

Education

OBJECTIVE

To create an interactive learning environment where students can collaborate wirelessly and remotely with their peers and teachers.

APPROACH

The Learning Studio provides user-friendly, cloud-based devices suitable for both individual and group work. Teachers have visibility of student progress and can provide feedback both in the classroom and remotely.

IT MATTERS

- HP devices operate in tablet or tent-mode depending on whether students are undertaking an individual or group activity.
- Cloud-computing enables students to feed into a single assignment simultaneously and in real-time from their own devices.
- Sprout 3D printer and mat enables the teacher to access multiple applications at once and students to scan and create prototypes and digital models.

BUSINESS MATTERS

- Students take control of their own learning by selecting the tasks best suited to their needs, with the ability to access support and tools that explain any content they're having difficulty with.
- Teachers have the freedom to move around the classroom observing and interacting with students while delivering lessons wirelessly.
- The technology allows teachers to create lessons that emulate real-world scenarios and demonstrate how digital technologies are applied in the workplace.



“Learning how to collaborate is vital given the rapid growth of technology based industries where projects are achieved in teams, rather than through singular efforts. Giving students the means to develop these skills early on will set them in good stead for their future careers.”

– Simon Condon, Head of Commerce, Northcote College.

Cloud-based devices enhance collaboration

Northcote College’s dedicated learning studio is an innovative and collaborative classroom environment where students use HP devices to take control of their own learning, explore real-world scenarios and apply digital skills to subjects at their own pace and in way that suits their individual learning style.



Students equipped with tools for real-world learning

Founded in 1877, Northcote College is the oldest secondary school on Auckland's North Shore. However, it's vision for digital learning is future-focused with the aim of preparing students for their chosen careers, using modern technology to develop skills in critical thinking, innovation and problem solving.

Northcote College Head of Commerce Simon Condon recently led the creation of a dedicated Learning Studio where senior students have the freedom to use digital technology at various stages throughout their learning in an interactive and collaborative classroom environment. His vision was to create ubiquitous access to technology without the need for students to work in a traditional and restrictive computer lab environment.

Learning Studio takes shape with mobile devices and 3D print capability

Condon worked with HP NZ Education Specialist David Farquhar to bring-to-life his vision for the Learning Studio by creating a space that empowers students to explore, trial and create using digital technologies. The final solution is in sync with Microsoft's strategy to Reinvent the Classroom with state-of-the-art HP technology that supports blended learning, international collaboration and the freedom to create and invent solutions to real-world problems.

Northcote College's Learning Studio is equipped with HP Pavilion x360 and Probook 430 devices with Microsoft OneNote, in addition to an HP Sprout Pro and Dremel 3D Printer.

"It was my vision to provide a shared space for students to explore new technologies and come up with creative solutions to problems through a combination of self-directed individual learning and collaboration with their peers," said Condon.

The HP devices are kept in the classroom for students to use as they see fit, while the Sprout Pro and Dremel 3D Printer are kept

at the front of the classroom for use on specialist assignments that require scanning, design and modelling capabilities.

"The devices came pre-loaded with Windows 10 Pro and Microsoft OneNote software, along with a range of applications that enable students to access work in the cloud, create and submit assignments and conduct research far outside the parameters of the school library. The Sprout Pro has added another dimension by allowing students to see a concept grow from inception through to reality with the ability to scan, design and print prototypes and other collateral," Condon says.

Digital platform for collaboration

By choosing the HP Pavilion x360, students can operate the device in tablet or tent-mode, which means it can be used both individually and in a group setting. It also means not all students require a device to complete work, with lessons designed to incorporate a variety of digital, written and practical activities.

The Business Studies course is an example where students can collaborate in teams, with each assigned a different responsibility such as researching, sourcing suppliers, preparing a business plan and designing marketing collateral. Through OneNote, all students can be feeding into the same document or folder and have access to their work beyond the classroom as it's stored in the cloud.

Customised lessons cater to individual learning styles

The ability to design lessons using their HP Probook 430 and Microsoft OneNote means teachers are also able to tailor activities to suit individual student needs and help to drive better engagement and achievement. They can prepare a range of tasks ahead of time that give students the freedom to work at their own pace, revisiting material or extending themselves as they're ready.

"Through Microsoft OneNote, we can provide lessons in video format which means students can review, pause and rewind if they're struggling to understand. Ideally

HP recommends Windows 10 Pro.

students watch these ahead of the lesson and use class time to apply the theory in an environment where they have support from teachers and their peers."

"Students welcome the freedom to progress at their own pace and our staff are freed up to move around the classroom to offer one-on-one support to those that need it."

Sprout Pro on Windows 10 Pro allows teachers to have multiple applications running at once as they move about the classroom and the ability to create immersive learning scenarios, where students can use 2D and 3D scanning and digital inking.

"The Sprout touch interface really captures students' imagination and sparks their creativity. Young Enterprise students use Sprout to scan and create brochures and work with 3D modelling to develop packaging prototypes. They can take their ideas from the concept stage right through to reality."

— Simon Condon, Head of Commerce, Northcote College.

"The best thing about the Learning Studio is seeing our students having the ability to explore, grow and develop at their own pace. As the terms progress, you see their confidence grow and their social skills become honed as they collaborate and work together to achieve results. Technology utilised in this environment really works."

Customer at a glance

Hardware

- HP ProBook 430
- HP Pavilion x360
- Sprout Pro by HP

Software

- Windows 10 Pro
- Microsoft OneNote

 Windows 10 Pro

Do more all at once.

Learn more at hpbuiltforlearning.com

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