Technology and Learning: Your Child's Future

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Courtesy, Consideration, Cooperation

Aims of the session

As a result of this session, parents will understand:

- ▶ why it is important for children to use technology at school;

- ▶ how we teach ICT and Digital Technologies at school;

- ▶ what your children use technology for at school; and,

- ▶ how the school plans to develop technology over the next 3 years.

Terminology

▶ ICT (Information and Communications Technology)

▶ Technologies (Digital Technologies/Design and Technology)

▶ STEM (Science, Technology, Engineering and Mathematics)

▶ Bring your own device (BYOD)

▶ Differentiation

▶ Personalisation

Key questions

▶ Why is technology important at school?

▶ What will my child be learning? What is expected for their year level?

▶ Why does the school need more devices?

▶ What are you doing with the devices you have?

▶ What is happening with the computer lab?

▶ What are the schools plans for BYOD?

▶ How often does my child use a screen during the day?

Identifying what matters

What does research say about the factors that make the most difference to student achievement?

Allocate a percentage to each of the following factors:

- Home

- School

- The principal

- Students

- Peers

- Teachers

Identifying what matters

Percentage of Achievement Variance

Hattie (2003, 2008), Timperley (2008), and Rowe (2004)
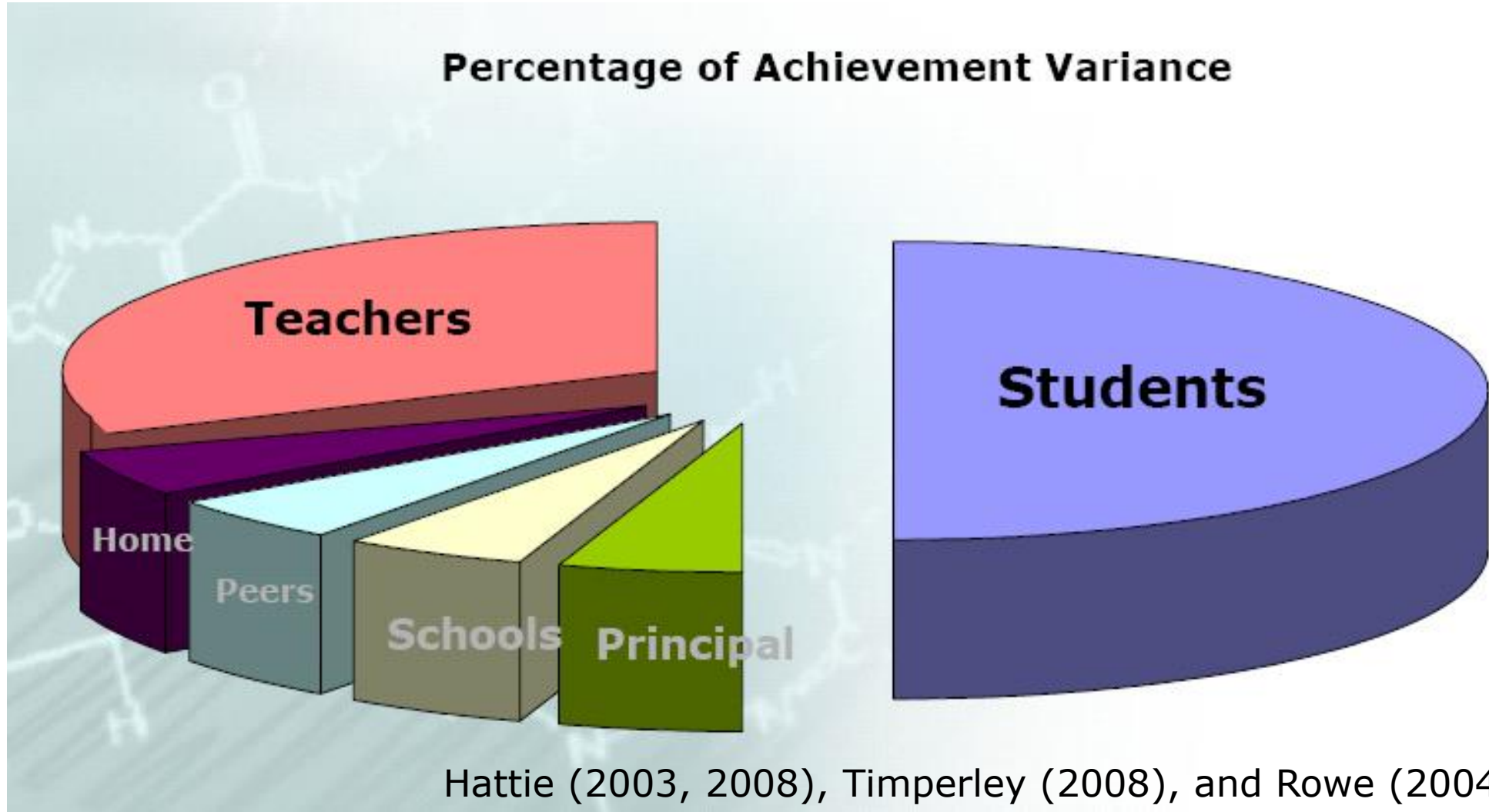
Why is technology important at school?

▶ Changes in the way we construct knowledge and interact with others.

▶ Develop knowledge, skills and dispositions around ICT and the ability to transfer these across environments and applications.

▶ Learn to use ICT with confidence, care and consideration, understanding its possibilities, limitations and impact on individuals, groups and communities.

Why is technology important at school?

▶ Melbourne Declaration on Educational Goals for Young Australians (2008)

▶ PISA Students, Computers and Learning: Making the Connection (2015)

▶ Gonski Report (2018)

▶ School Business Plan 2018-2020

What will my child be learning?

ICT

Activities such as: Conducting research, creating multimedia information products, analysing data, designing solutions to problems, controlling processes and devices, and supporting computation while working independently and in collaboration with others.

Digital Technologies

Providing students with authentic learning challenges that foster curiosity, confidence, persistence, innovation, creativity, respect and cooperation. These attributes are necessary when using and developing solutions to make sense of complex ideas and relationships in all areas of learning. Technologies helps students to be regional and global citizens, capable of actively and ethically communicating and collaborating.

What will my child be learning?

consumer

hands on, brain off

create

collaborate

solve problems

What is expected for my child's year level?
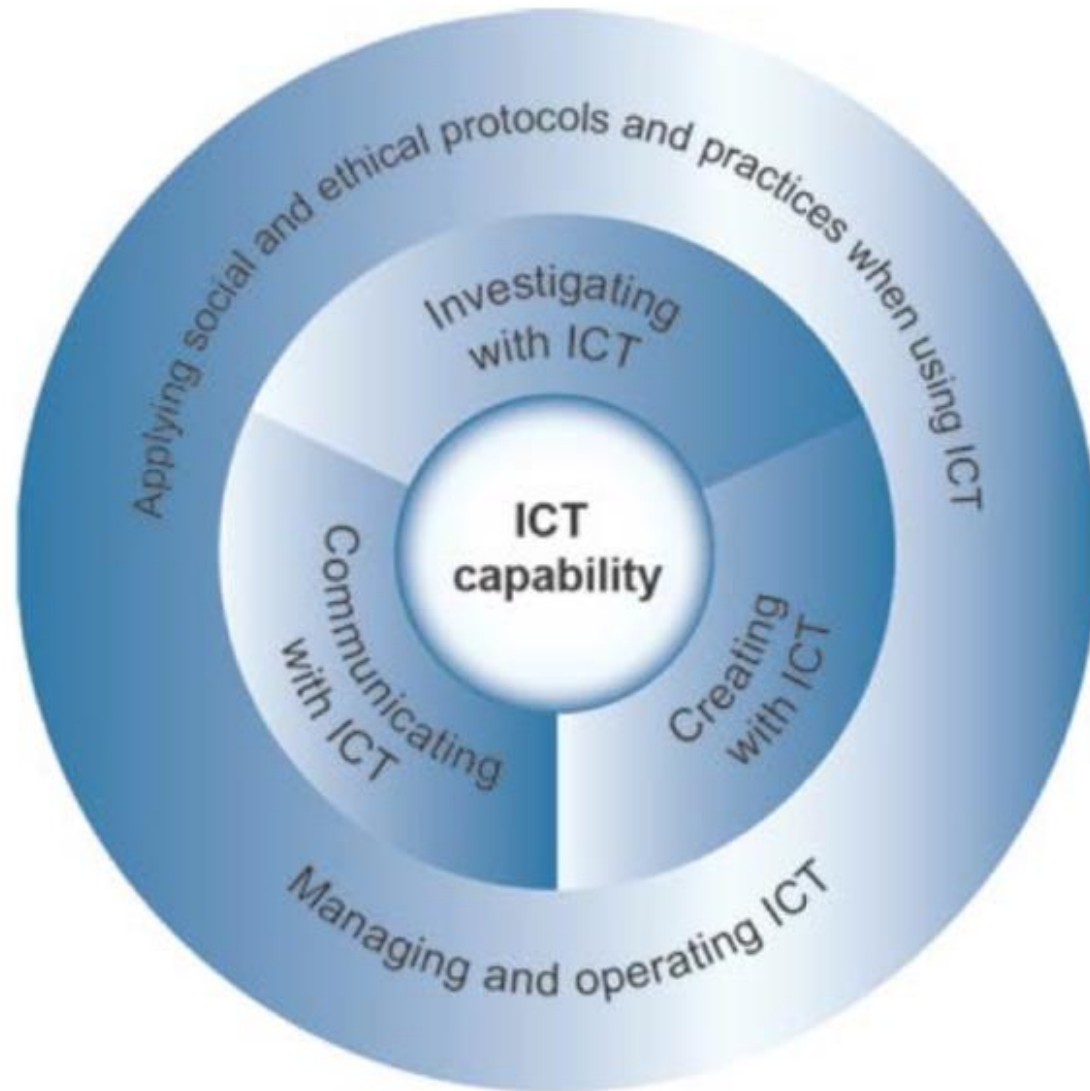
Why does the school need more devices?

► iPads: We want to increase the ratio to 1:2 in Year 1 upwards

► Ratio will be achieved by purchasing iPads and by moving some current Y3 to 6 iPads down.

► Laptops: We want to achieve 2 full class sets (65) to use across Year 4 to 6

► This will allow 2 classes to use 1:2 or 1 class 1:1.

► Laptops are leased for 3 years. At that point, we will be planning for BYOD laptops in Year 5 and 6.

What are you doing with the devices you have?

▶ Kindy – **No individual mobile devices**

▶ Pre primary – 5 iPads per class

▶ Year 1 to 6 – 6 to 8 iPads per class

▶ Year 4, 5 and 6 – 20 laptops shared between all classes

▶ Specialist teachers – 28 iPads (available for Italian, Music, Phys Ed, Art)

▶ Digital Technologies/STEM – 30 iPads and 30 laptops, used to deliver the STEM program

▶ Plus, each teacher has an iPad as it's vital they are confident and competent users of technology

What is happening with the computer lab?

▶ Digital Technologies/STEM teaching program needs a base

▶ Traditional computer rooms no longer responsive to how we use technology

▶ STEM Equipment is the electronics e.g. robots materials used to teach STEM

▶ Computers moved to classrooms to replace old ones and avoid having to buy more

▶ Vision is for ICT to be mobile and accessible at point of need as a tool to support learning (as it is nowadays)

What are the schools plans for BYOD iPads?

We are not planning BYOD iPads at this stage for the following reasons:

- ▶ Security
- ▶ Functionality/apps
- ▶ Specifications
- ▶ Insurance/damage
- ▶ Flexibility
- ▶ Risk of over use
- ▶ We want kids to be kids at home

Developing a Digital Learning Platform and moving towards BYOD in 2020

Department of Education
Connect Classroom

https://player.vimeo.com/video/234791047

How often does my child use a screen during the day?

▶ 'Screen time' not an effective measure anymore. Limited, but quality time where children are creators, collaborators and problem solvers is better.

▶ Kindy – will rarely be using a screen device

▶ Pre primary to Year 6 – Cumulative total of no more than 1 hour per school day

▶ Digital Technologies/STEM – students may be using a device during some of these lessons. 1 hour per week for 1 semester.