Sacred Heart Primary School

1 : 1 MacBook Air Laptop program Year 4 - Year 6

Sacred Heart School Prayer

Dear Jesus,

Through the power of the Sacred Heart

you have shown us how to live the Gospel values.

You have taught us how to treat others kindly and with respect.

Help us at Sacred Heart Highgate, to use our talents and to continue your good work,

so that we will be peacemakers for the world.

We ask this through Jesus Christ our model and Teacher.

Amen.

Our Vision

As a 21st Century community we are responsible for quality teaching and learning, which enhances meaningful student engagement and creates responsible digital citizens.

Our Beliefs and Assumptions at Sacred Heart

- · All students can learn.
- · Technology is a tool that is one part of a quality learning process.
- · Meaningful educational technology integration is an essential element to learning in the 21st Century.
- · Effective teacher up-skilling is important in raising the competencies of all educators, students and parents.
- · Other effective pedagogical strategies need to be supported by technology.

Why have a one-to-one laptop program?

Today's students will need many skills to be successful 21st Century citizens. While Literacy and Numeracy will always be our top priorities at Sacred Heart Primary School, it is also critical that students are able to create, collaborate and connect using technology.

By teaching students to use technology effectively, the teachers at Sacred Heart aim to provide a rich and engaging curriculum that will prepare the students for the future.

Research on the advantages of a 1:1 Laptop Program

In regards to student learning, research has shown benefits through:
- increased media literacy
- improved writing
- increased scores on standardised tests

In terms of a broader positive impact on student performance, other positive effects of laptop computing on students include:

increased motivation
improved student engagement
decreased disciplinary problems
improved school attendance

- Research relevant to the implementation of one to one programs using technology as an instructional tool shows **evidence of increased student engagement and improved student achievement of educational outcomes** (Gulek & Demirtas, 2005; Holcomb, 2009).
- A New South Wales Department of Education and Training, Curriculum K-12 Directorate (2009) study supports the idea that successful implementation of a one to one computer program must be approached from an **instructional position rather than a technical position.**

What does a 1:1 Program provide?

Research provides evidence that a 1:1 program can:

❏ improve student learning and academic achievement

❏ facilitate a differentiated, problem-based learning environment demanding higher-order thinking skills

❏ foster more collaborative, inquiry-based learning

❏ provide timely, more equitable access to a broader range of digital educational resources

❏ enable the development of computer literacy skills

❏ prepare students to better compete in technology-rich workplaces

Systems and Structures in place at Sacred Heart

- School funded iPad program in junior classes K—3.

- School funded 1:1 iPad program in Year 2 and 3.

- Key ICT Teacher working to support junior school staff in implementing effective iPad integration.

- SHPSH to image laptops and coordinate roll out days. Apple consultant will support.

- Maintain communication with parents via posted letter and email to families.

- Digital Licence for all senior students Year 4, 5 and 6

- Parent involvement and participation in information sessions. Term 1 workshop provided.

Current Opinion

Survey Parent comments	Survey Parent Suggestions
1.Convenience. 2. Another method of increasing engagement and learning. 3. Supports school work. 4. Teaches skills in the use of technology. 5. Improves confidence in the use of technology for school work. 6. Creates a sense of ownership and encourages autonomous learning. 7. Teaches self awareness and the need to improve knowledge.	1. Provide information nights/workshops. 2. Cyber Safety Parent Workshops 2017 3. Parent and Child workshops with Teachers 4. Continue communication through: ● Blogs/online ● Newsletter ● Email ● Parent Teacher meetings

Digital Licence for 2016

- Practical Use- Care and maintenance- taking care of the device, transporting the device, keeping it safe from external

- Cyber safety- privacy, keeping yourself safe, parent involvement

- Educational tool at school/home- use of applications, readiness for school

- Well Being- sitting at the computer, rests from the screen etc..

- Digital etiquette -using headphones , privacy when working, language used in email etc...

The Digital Licence will be distributed for parents to discuss with their child and signed by both parent and student.

Students' journey with the 1 : 1 Laptop program
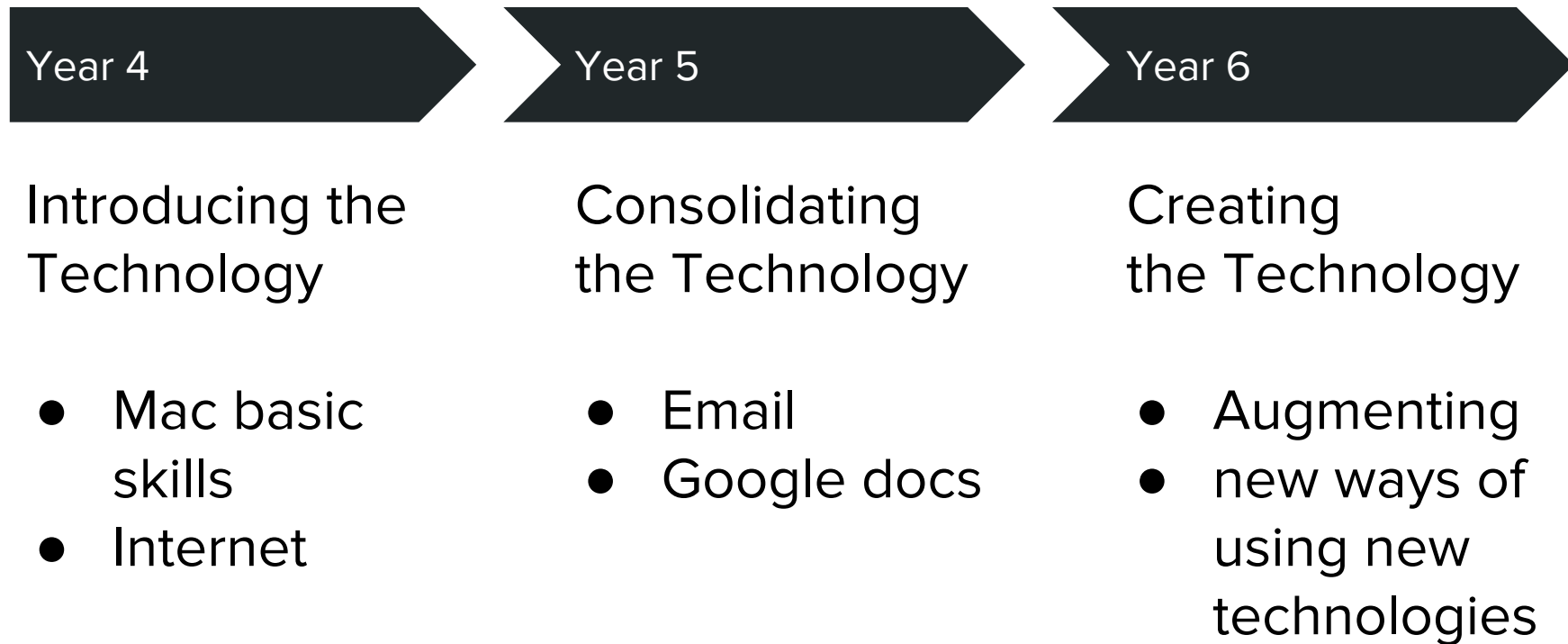
| Year 4 | Year 5 | Year 6 |

Introducing the Technology

- Mac basic skills
- Internet

Consolidating the Technology

- Email
- Google docs

Creating the Technology

- Augmenting
- new ways of using new technologies

Introducing the Technology

Year 4

Miss Ashleigh Barker

Technology Skills targeted in Year 4

ACARA Curriculum

DIGITAL SYSTEMS - Identify and explore a range of digital systems with peripheral devices for different purposes, and transmit different types of data (ACTDIK007)
REPRESENTATION OF DATA - Examine how whole numbers are used to represent all data in digital systems (ACTDIK015)

Skills

- Student emails introduced at the beginning of year 4
- Google Docs
- Google Slides
- Saving documents, photographs and videos including creating folders and creating an organised system.
- Touch Typing

Cyber Safety

- Digital Citizenship
- Digital Footprint
- Public vs Private information and sharing
- Cyber Bullying
- What is a good/safe website?
- Reliable Websites
- 'Netiquette' online
- Password Safety and Privacy
- Recognising email scams and junk mail
- Safe download and recognising a virus/malware

ACARA Curriculum

COLLECTING, MANAGING AND ANALYSING DATA
- Collect, access and present different types of data using simple software to create information and solve problems (ACTDIP009)

DIGITAL IMPLEMENTATION
- Define simple problems, and describe and follow a sequence of steps and decisions (algorithms) needed to solve them (ACTDIP010)
- Implement simple digital solutions as visual programs with algorithms involving branching (decisions) and user input (ACTDIP011)
- IExplain how student solutions and existing information systems meet common personal, school or community needs (ACTDIP012)
- Plan, create and communicate ideas and information independently and with others, applying agreed ethical and social protocols (ACTDIP013)

Application

- Budd-e Cyber Smart Program
- Padlet
- Edmodo
- Socrative Quizzes
- Plickers- Immediate Feedback questions.
- Dojo Points
- Coding - Terminology and Functions
- Read Theory
- Mathletics
- Soundwaves
- iMaths
- Touch Typing
- Online Spelling Assessment
- *Seesaw App
- BtN

Technology Skills targeted in Year 4

Mac Skills

- General care (how to carry, charge, sweep and sleep, updates)
- Keyboard shortcuts
- Saving/moving files/screenshots
- Typing
- Guided research

Cyber safety

- Digital Citizenship
- Digital Footprint
- General Safety
- Log in/password safety
- Everything still goes through teacher

Application

- Padlet - (all subjects)
- Edmodo - Online collaborative classroom
- Plickers
- * Reading Rewards - online reading log
- Hour of Code - coding

Year Four Example - *Padlet - Convict Research*

barker_ashleigh + 25 · 2mo
Term 3 Convicts Research
Made with ♥

Thompson
Name: John Archer Forrester
Ship: Scarborough
Age: 31
Crime: Stealing coach window glass value 40 shillings
Sentence: Transportation for 7 years
Other: Tried at Old Bailey,London,26 May,178

Stef
Name: Stephen Barnes
Ship: Alexander
Age: unknown
Crime: Stealing clothes and 39 shillings
Sentence: Transport for 7 years
Other: He had no occupation and also had left England

Bella
Name: Mary Groves
Ship: Prince of Whales
Age:30
Crime: stealing cash with a value of 273 shilling
Sentence: 7 years of transportation
Other: she had no occupation recorded

John
Ship: Alexander
Convict: John Allen.
Age:about 45.
Crime: Stealing Beding worth 200 Shillings.
Sentence: Transportation for 7 years.

Nina
Name: Michael bryant
Ship: friendship
Age: 20
Crime: stolen goods
Sentence: 14 year
Other: transportation for 17 years

Hamish
Name:John Anderson
Age: about 24
Crime:Stealing value
Sentence:transportation 7 years
Other: he had no occupation recored

Lia
Name: Sarah bellamy
Ship: lady penrhyn
Age: 17
Crime: Stealing a purse containing cash and promissory notes with a value of 630 shillings
Sentence: transportation for 7 years
Other: died1843

Vivi
Name: Mary Green
Ship: Prince of Wales
Age: Unknown
Crime: Steeling teapots and cups 10 shillings
Sentence: Transport for 7 years to NSW
Other: Lived with John Harris on Norfolk Island and had 3 children

Grace
Name: Elizabeth Clark
Ship: Friendship
Age: about 20 years old
Crime: for stealing clothing for six shillings.
Other:sentenced to tranport for 7 years and died in 1788.

Anisha
Name : Peter Bond
Ship : The Alexander
Age : About 21
Crime : Stealing household goods
Sentence : Transportation 7 years with value of 10 shillings
Other : He was tried at old Bailey, London 15 September 1784

Edrin
Name: Patrick Burn
Ship: Friendship
Age: about 26 years old
Crime: highway robbery of 49shillings
Sentence: to die
Other: He was originally his occupation was baker.he died in 1787.

Audrey
Name: William Bell
Ship: Scarborough
Age: About 25
Crime: For assault and highway robbery value of 7 shillings

How is it implemented?
- During a lesson (as activity)
- As revision
- Prior knowledge to plan for future lessons

Example:
- *Humanities* as research for an activity in the future.
- *Coding* what do you like about coding/what have you learnt?

Positives:
- Engaging. Different way of note taking, rather than in the book.
- Immediate feedback to learning (Teacher can edit)
- Collaborative. Student can work together or see others work.

Year 4 Example- *Plickers- Revision Questions*

How is it implemented?
- During a lesson
- As revision
- Prior knowledge to plan for future lessons

Example:
- *Mathematics* terminology and definitions.
- *English* structure of a narrative

Positives:
- Engaging. The students always ask to do plickers
- Immediate feedback to learning
- Questions are asked from the students- seek clarification.

Consolidating the Technology

Year 5

Mrs Amanda Saraceni

Technology Skills targeted in Year 5

ACARA Curriculum

DIGITAL SYSTEMS - Digital systems have components with basic functions that may connect together to form networks which transmit data (ACTDIK014)

REPRESENTATION OF DATA - Data is represented using codes (ACTDIK015)

Skills

- Student emails introduced at the beginning of Year 4 and continued in Year 5
- Students will learn email etiquette and will receive and send emails regularly that include attachments
- Google Docs
- Google Slides
- Saving documents, photographs and videos
- Creating a pdf file
- Touch Typing

Cyber Safety

- Digital Citizenship
- Digital Footprint
- Public vs Private information and sharing
- Cyber Bullying
- What is a good/safe website?
- 'Netiquette' online
- Password Safety and Privacy
- Recognising email scams and junk mail
- Safe download and recognising a virus/malware

ACARA Curriculum

COLLECTING, MANAGING AND ANALYSING DATA
- Collect, store and present different types of data for a specific purpose using software (ACTDIP016)

DIGITAL IMPLEMENTATION
- Design solutions to a user interface for a digital system (ACTDIP018)
- Design, follow and represent diagrammatically, a simple sequence of steps (algorithm), involving branching (decisions) and iteration (repetition) (ACTDIP019)
- Implement and use simple programming environments that include branching (decisions) and iteration (repetition) (ACTDIP020)
- Create and communicate information, including online collaborative projects, using agreed social, ethical and technical protocols (codes of conduct) (ACTDIP022)

Application

- Budd-e Cyber Smart Program
- Reading-Rewards
- Dojo Points
- Coding - Terminology and Functions
- Coding - Developing Games
- Robotics - Edison
- Read Theory
- Mathletics
- Soundwaves
- iMaths
- Touch Typing
- Online Spelling Assessment
- Seesaw App
- BtN

WED **7 September 2016**

NUMBER 15

25 + 7
the number after 381
28 - 8
75 + 12
100 more than 109
* 10 more than 11
4 less than 979
24 shared between 2
20 less than 73
32 + 16
35c + 30c
6000 + 200 + 10 + 5
Round 18 to nearest 10
FINISHED
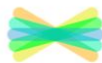
Seesaw

SAT **1 October 2016**

THU **22 September 2016**

MON **17 October 2016**

'Mad Writing!'

📁 Literacy

♥ Amanda Saraceni

Blocks

move forward

turn left ↺ ▼

turn right ↻ ▼

repeat ??? times
do

Workspace: 1 / 5 blocks

when run

▶ Run

Step
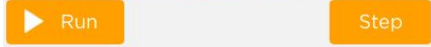
Get me to the sunflower using the fewest blocks possible! Try using one `repeat` loop inside of another to cut down on the amount of code you need.

Edison

fun robotics for tomorrow's inventors!
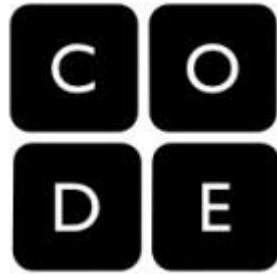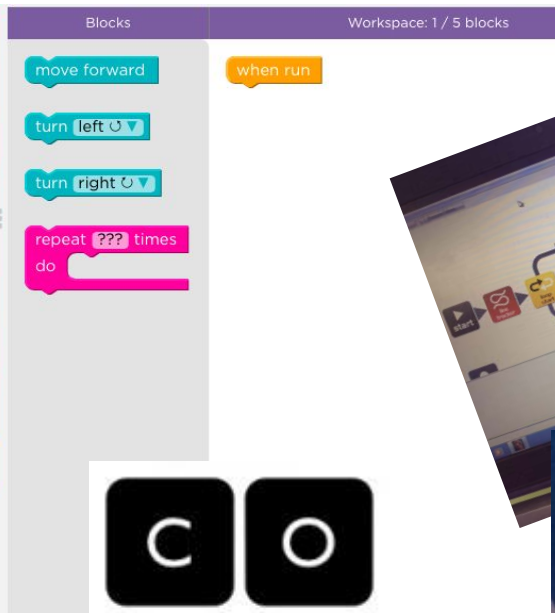
Student Game created using CODE
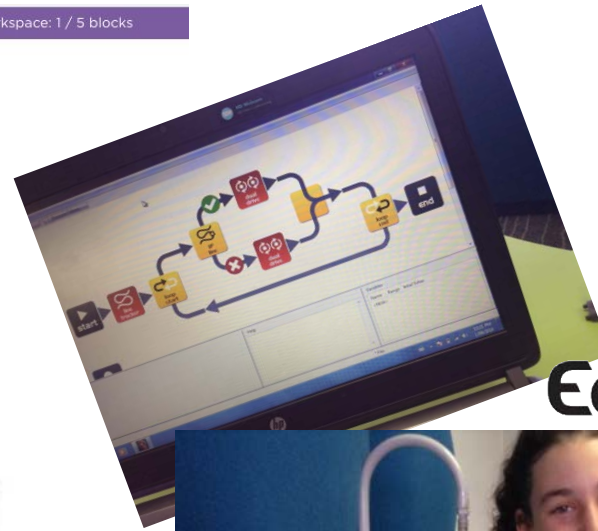
Creating the Technology

Year 6

Ms Byrne-King

Technology Skills targeted in Year 6

Cyber Safety

Producing and implementing
Select, and apply safe, procedures when using a variety of components and equipment to make solutions (ACTDIP022)

-Numeracy
-Information and Communication
-Technology (ICT) capability
-Critical and creative thinking
-Personal and social capability

- Digital Citizenship
- Google digital license

Collaborative Learning

Manage the creation and communication of information, including online collaborative projects, using agreed social, ethical and technical protocols (ACTDIP022)

- Google Classroom
- Google Docs
- Google Slides

Application

Digital Technologies Processes and Production Skills / (ACTDIP019)
Digital implementation
Design, modify, follow and represent both diagrammatically, and in written text, simple algorithms (sequence of steps) involving branching (decisions) and iteration (repetition) (ACTDIP019)
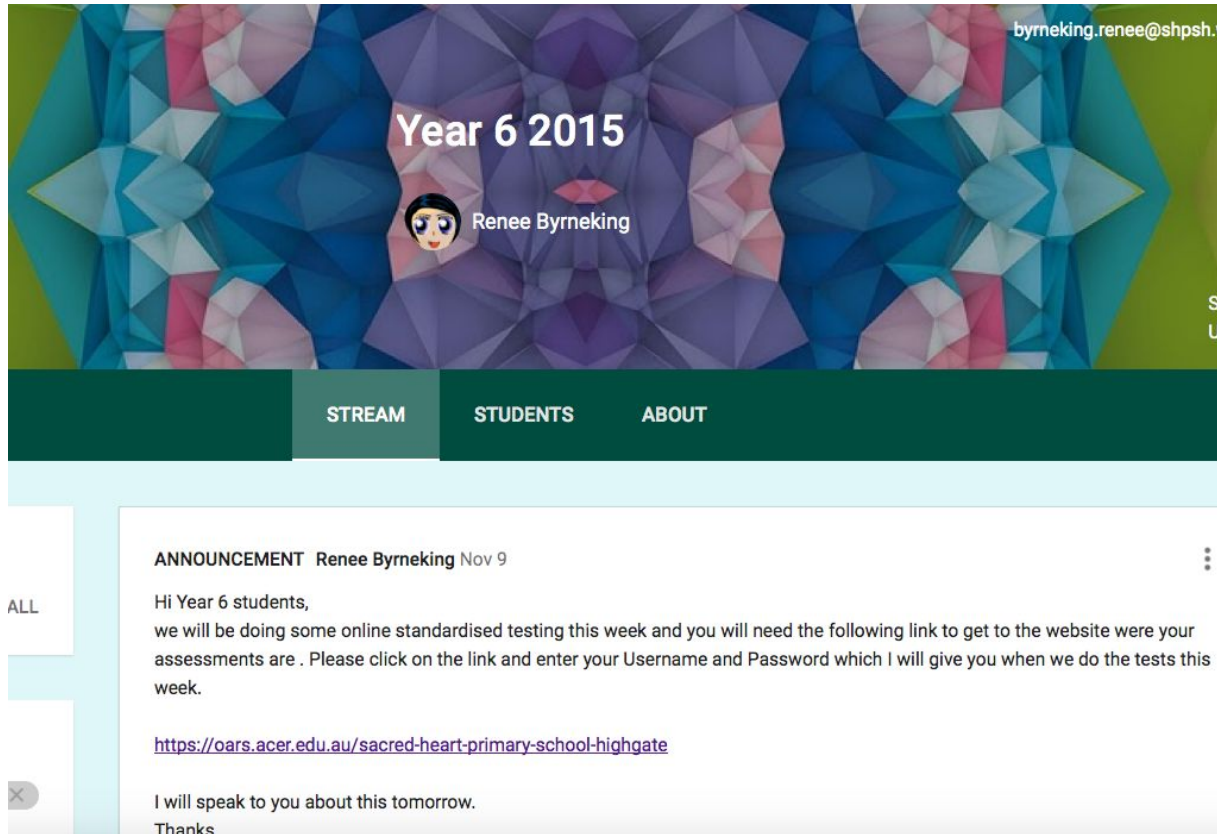
- Robotics
- 3D printing
- Coding

Google Classroom

Creating an App

1:1 MacBook Program 2016
by Derek Stewart

Technology Tree
Keeping your network running so you don't have to

Minimum Requirements

MacBook Air 11"

Model Number **MJVE2LL/A**

1.6GHz dual-core Intel Core i5 processor (Turbo Boost up to 2.7GHz)

4GB memory, 128GB Solid State Drive, Intel HD Graphics 6000
Please check the last page for other tested/supported models including the Macbook Air 13"
MD231xx/A

Battery Life	Up to 9hrs
Weight	1.08Kg
Warranty	Covered by a 1 year limited Warranty from Apple and Australian Consumer Law (if purchased in Australia). An AppleCare Protection Plan for MacBook Air can be purchased for an additional cost.

Required Accessories

Hard Shell   Headphones
                    with Mic

Recommended Accessories

Portable 2.5"   Sleeve
External HD

Model reference http://www.apple.com/au/macbook-air/features.html.

Technology Tree

Important Information

- **Date to remember**
- DATE MacBooks to school on the first day. Imaging will take place during week 1
- Feedback request from parents. Information session based on this. Scheduled for first/second week of term.
- Students from year 4, 5 and 6 approx. 1hr sessions on MacBook maintenance, tips and tricks. To be scheduled a week after the parent sessions.

Site references for parents

- School Website - http://web.shpsh.wa.edu.au/
- Apple MacBook Air - http://www.apple.com/au/MacBook-air/
- Apple Education Store - http://store.apple.com/au-hed
- Apple Finance - http://store.apple.com/au/browse/finance/instant_credit
- **Apple Refurbished Store** - http://store.apple.com/au-hed/browse/home/specialdeals
    - **11" MacBook's** - http://store.apple.com/au-hed/browse/home/specialdeals/mac/MacBook_air/11
- Apple iTunes gift cards - http://www.giftcardsonsale.com.au/
- Black Friday Guide - https://blackfriday.com/when-is-black-friday
    - Friday November 25, 2017
- Schools Digital License - http://web.shpsh.wa.edu.au/pdf/policies/policies_educationaltechinfo.pdf

Supported Models

- Oldest model current Year 6 Students - **MD223xx/A** - MacBook Air (11-inch, Mid 2012) MacBookAir5,1

- Oldest tested Macbook Air 13" **MD231xx/A** - MacBook Air (13-inch, Early 2012) MacBookAir5,2

- *Please note that the battery life does deteriorate after age and can have an impact on the reliability in class.*

Site references for models

- Apple MacBook Models - https://support.apple.com/en-au/HT201862

- Apple MacBook OS X versions and model support - https://support.apple.com/en-us/HT204319

Additional Site references for Parents

- Apple Repairs at the Genius bar - https://www.apple.com/au/retail/geniusbar/

- Family Sharing on iTunes - http://support.apple.com/en-au/HT201060

- Backing up your Mac using Time Machine - https://support.apple.com/en-au/HT201250

- OpenDNS - https://www.opendns.com/

Thank you

for attending this evening and for your continued support.