

JOHN XXIII COLLEGE



MAGIS

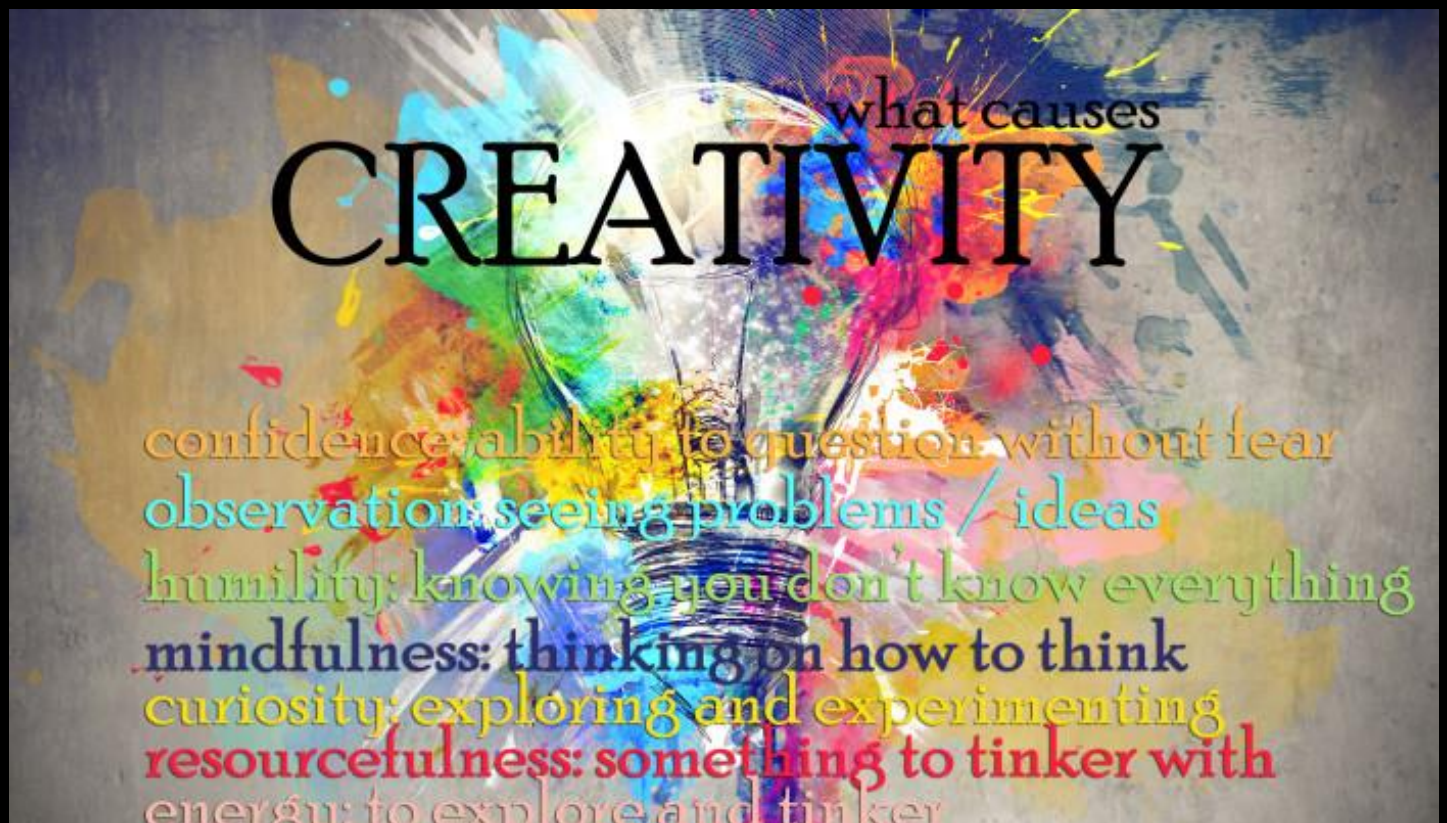
Gifted and Talented Program

PERSONAL PROJECT DISPLAY

Years 7-8 Magis Option Students

SEMESTER TWO 2021 - Wednesday November 17

PROGRAM BOOKLET



John XXIII College

PERSONAL PROJECT DISPLAY

Semester Two 2021

Students taking the Magis Option in Semester Two have had twelve weeks to complete the personal projects on display today. The method is based on the International Baccalaureate Personal Project, but modified to suit younger students and a much shorter timeframe within which to complete their work. They were challenged to choose a project related to a major interest or passion of theirs, and there have been some excellent, creative results.

A key element of the project is the **Process Journal**, in which students reflect regularly on their progress and analyse what's working, what's not, and what they are going to do about it. The development of ability to become reflective learners is a key aspect of the program. Congratulations to all students on their achievements, and warmest thanks to parents and others who have supported them.

- Jim Miller
Gifted and Talented Program Coordinator



Sam Stokes - Micro Bifuel Cell



Above: Logan Blake's Historical sailing vessel



Above: Poppy Finucane's Lego Kombi

The life of the Methuselah tree

The Methuselah tree, which resembles the 950-year-old California white oaks, is the world's oldest known tree, with an age of 4,852 years old. The tree was discovered by David Johnson in 2017. The tree species is called Great Basin Redwood (Sequoia gigantea).

Characteristics
The tree is named after the long-lived biblical figure Methuselah who is supposed to have lived to an astonishing age of 969 years old. Methuselah was the oldest figure in the bible. He is part of the family, revealing something that there will be no discovery of his tree makes good sense.


Physical data
Methuselah tree:
Location: 3,815 m (12,517 ft)
Height: 13.8 m (45 ft 3 in)
Diameter: 13.77 m (45 ft 2 in)
Species: Sequoia gigantea
Age: 4,852 years
Reference: Wikipedia




REFERENCES

By William Cairns

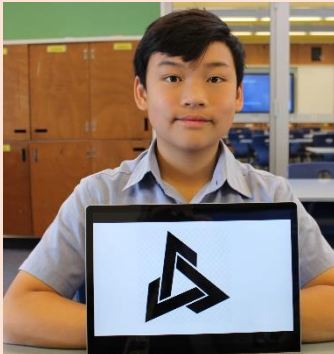

William Cairns - The Methuselah Tree

3 Personal Project Exhibition

<p>1. Bradley Connor</p>	<p>The History of Basketball</p>
 	<p>My person project is called the "History of Basketball." It goes from how basketball was created to how basketball is played nowadays. There is detailed information about every era of basketball. All the information you need to know about the History of Basketball is packed into just a few pages. There are pictures of all the historical times and players from basketball's history such as photos of James Naismith (the creator of basketball) setting up the first basketball game for his students.</p>

<p>2. Joy Cho</p>	<p>Exploring Harry Potter</p>
  	<p>In this project, I decided to explore more about one of my favourite series, Harry Potter. I researched about the various settings, the writing style, themes and what sets apart Harry Potter from any other series. I also conducted a survey which allowed me to see the different responses such as what genres Harry Potter fans generally enjoyed, why they liked it as well as any lessons that they learnt. With this research I could develop a deeper understanding of the series I love which guided me to write a short, illustrated prequel. The prequel is set in the Harry Potter world, but several years back. It explores the backstory of Sirius Black and Bellatrix Lestrange who I have always thought were interesting characters.</p>

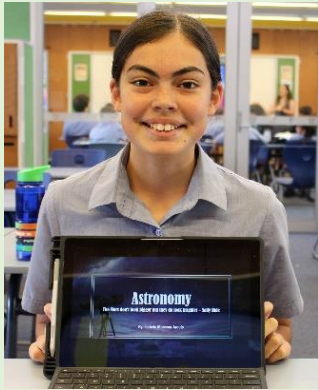
3. Nicholas Hie Fusionreign – video game

	<p>Fusionreign is a 2021 single player third-person shooter game I developed on Scratch. Fusionreign takes place in the future where a zombie apocalypse has occurred, and you must eliminate all zombies to survive. Killing zombies give you cash which you can use buy upgrades for your gun, buy new guns and new skins. To win you must survive and eliminates all zombies in the 50 waves, the waves progressively get harder with 4 different types of zombies, normal, speed (faster movement but lower health), tank (higher health but lower movement) and boss which spawn every few waves. Your character has 3 lives (150 hit points, health bar), every time you a zombie hits you, you will lose one life (50 hit points).</p>
	

4. Ruby Rose Johnstone Springboard and Platform Diving

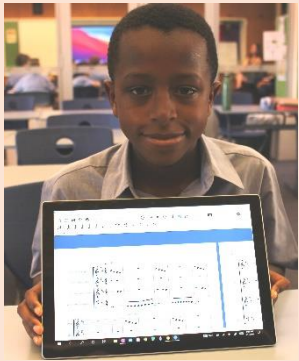
	<p>My poster describes all the rules, basic history, different types, and positions of dives, how scoring and judging works and of course a summary of my diving career and all the great opportunities and experiences I have had handed to me through the incredible sport of diving. I have made an interesting PowerPoint about the Olympic diving great Melissa Paige Wu who has inspired me.</p>
	

5. Isabella Mansom-Arajo **The Adventure of Astronomy**



Astronomy is the study of everything in the universe. My project is about all the planets and our favourite dwarf planet in the solar system including the sun. I mention who or what they are named after, their rotation period compared to earth's and all their moons. I've also added facts on the Apollo 11 Mission and 4 of the most famous Astronomers, and I've made a model of the solar system that shows what they look like and I definitely haven't forgotten the moons. My project explores the unique and interesting.

6. Tozi Mhembre **The Beats of Africa**



My project is a musical composition of feeling. It describes my feeling of Africa being an upbeat drum of fun and intrigue. I got an idea for this piece funnily enough whilst in the car listening to my father's Spotify playlist. He told me he enjoyed this music as it was upbeat and easy to groove to. That is what I base my piece of an enjoyable catchy piece that everyone can enjoy. Each part represents the different people of Africa coming together to rise and become something beautiful.



4 Personal Project Exhibition

7. Luke Wandel **Blitz Defence 3**



Blitz defense is a Tower Defense game that I have created, based on of a tutorial that was made in Scratch 3.0. You start with money and you open the shop to place towers, when your defense is ready hit the play button and away you go! The waves of zombies will flood in with no mercy trying desperately to get to the other side! Only you and your troops can stop them by shooting them down! As you progress the waves get harder and harder and you start needing more and more troops. Luckily there is a money system that if you shoot down 1 zombie you get a certain amount of money. Use your money to buy more troops to keep the zombies. Upgrade your troops to deal more damage or sell the old troops for money to buy new ones!

8. Ollie Wever **Football – A brief Video**

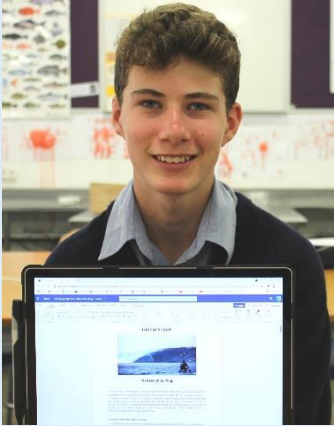


My name is Ollie and I have created a video on Football. This video is comprised of 3 main sections:

1. A brief history of soccer
2. Football in Europe
3. My footballing Journey and personal preferences

In the first section I explain a bit about the creation of the rules, significant events throughout history, and its origin. In the second section I talk about the leagues, players, teams, and nations throughout Europe, and highlight the greatest players and prestigious awards. In the final section I talk about my goals for the future, and favourite teams.

9. Noah Boruff



A History of Surfing

This is a report on the History of the magical sport Surfing. It takes you through the journey of surfing, from the early Europeans taking logs, about the natives on Hawaii and the magical sport of surfing. All the way to where it is now with big brands and names like Rip Curl a brand that started as two mates has grown to an international scale, or Kelly Slater who has become an idol for many surfers around the world

10. William Cairns



The life of the Methuselah Tree

My Personal Project this semester was on the topic of the world's oldest tree, the Methuselah Tree. To display information on the tree, I made a poster showing my research on the tree, and I also made an informational video on the tree. I showed on my poster and in my video, who the tree is named after, how its age was confirmed, the previous world's oldest tree, who discovered the tree, and general facts (such as Elevation, Height, Width, age and location). In my video, I showed lots of photos and videos about the tree and other facts.

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11. Chris Cesare



Kyuville

Somewhere amongst the lands, A small village thrives in a forest, sparsely populated and quite isolated. This place was Kyuville. It is my personal project for Magis. When I chose to do Minecraft for my project, I did not expect to tackle probably my biggest Minecraft project ever - This build was really to show what I could do in terms of Minecraft, so I tried to focus it mainly on aesthetics, but it ended up including a few scratch minigames hidden around the place. I've been working really hard on it, and I really am proud of what I've done.

12. Poppy Finucane



Land of Lego

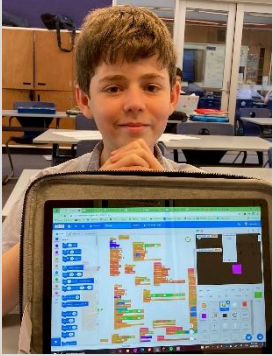
I have chosen to do my Magis Personal Project on the neurology, history, and innovation of LEGO. I chose to do it because I want to explore and show how LEGO is more than just a toy, and show that this vast, booming business came from a modest, not very well-known toy maker. LEGO has always been a favourite of mine, from building Flounder and Ariel with DUPLO at 5 years old to know, building the Empire State Building and the Taj Mahal to add to my growing display.



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13. Joseph Nankivell

Scratch'o'mania



My scratch game is a set of 3 games I have created. They include a zombie shooter game (a game where you shoot zombies with 3 upgradeable guns) a tower defence game (a game where you place towers to defend against incoming waves of zombies, includes 3 boss zombies) and a shoot 'em up game (a game where you fight enemy planes in a helicopter that can be upgraded using power tokens dropped when a plane explodes). You may also find a Lego rendition of my games on a static level, as well as information about each game, the bugs and glitches I had to overcome.

14. Christian Oldmeadow

Samurais with guns



This is a game where you are a samurai with a gun, a sword and an RPG - you can swap between them with the right arrow key. To move you use w=forward s=backward a=left d=right and space to jump. You shoot with the left mouse button and aim with the right. You press q to roll. With the melee you use tab to lock onto an opponent. The goal of the game is to go through the rings and it's a race against time. Also if you shoot the floor with the RPG you will launch yourself into the air which will be very useful but this will hurt you.

15. Sancia Annan

The Adventures of Annie Plume on Red Wood Island



My personal project is a journal that explores the adventures of Annie Plume on Red Wood Island. A full of diary entries and sketches. Annie arrives on Red Wood prepared for a fun Summer with her mum. All that changes when her mother goes missing; will Annie with the help of her friend Elliot be able to unravel the secrets of Red Wood Island? You'll have to wait to find out!

16. Elsie Samson

SIDS Origami Butterflies



My project is all about SIDS and how to reduce the chances of SIDS through education of safe sleeping. I have chosen to do my project about SIDS because I would like to become a paediatrician when I am older, so I wanted to learn about it. My origami structure in the middle is filled with origami butterflies hanging of a tree twig and there are 130 butterflies which is the number of babies lost to SIDS each year in Australia. I have created this project in the hopes of spreading awareness of SIDS and I really enjoyed making the origami.

17. Amelia Watts

WATTS COOKING



I have made an instructional cooking YouTube channel with accompanying cookbook of my family recipes. There are a variety of recipes from desserts to breakfasts and dinners. The videos include step by step instructions on how to make the dishes. All of the recipes are simple and easy to follow, perfect for all ages 10+. You can find the videos as a QR code at the back of the cookbook. I hope you have as much fun making these dishes as I did!

18. Logan Blake

Edward Whitton



My personal project outlines my relation to my great grandfather Edward Whitton who was on board the first fleet. The main feature of my personal project is the ship model that I made from wood. My project includes a poster and a PowerPoint showing the design of the First Fleet ship and also outlining Edward Whitton's life.

19. Kai Cranfield

OVER-FISHING



One of the many problems faced in modern society is OVERFISHING. Overfishing is the removal of species of fish from a body of water at a rate that the species cannot replenish, resulting in those species becoming underpopulated in that area. I then researched this area and with the information I found made a apparatus to help combat overfishing and endorse sustainable, selective fishing.

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20. Caleb Faulkner Hill

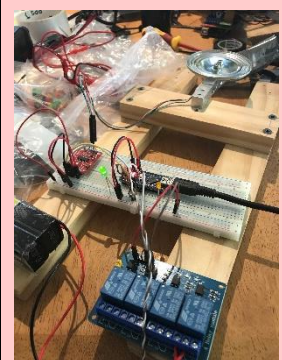
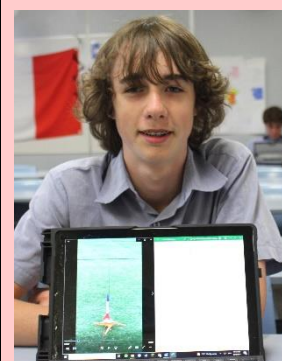
The Abyss Stares Back



' Battle not with monsters, lest ye become a monster, and if you gaze into the abyss, the abyss gazes also into you.'
– Nietzsche
The Abyss Stares Back is a roleplaying game about doomed heroes gradually being corrupted while also becoming more and more powerful and eventually becoming monsters themselves. What is a roleplaying game you may ask? A roleplaying game is a collaborative storytelling game where everybody but one person takes the role of a character and the final person portrays the rest of the world, the challenges et cetera. It uses a dice resolution system to accentuate the tale of corruption and a corruption system meant to accentuate this.

21. Cormac McDonald

SUGAR BASED ROCKETS



My Magis personal project for this year is to construct optimise test and record making homemade sugar based rockets. I did most of this project with my dad's help and guidance as he has done rockets before and we have spent many hours on it. Our project consists of a rocket testing rig, some codes for reading data, some homemade rockets and lots of videos and photos of at-home tests. We made about 17 or so rockets and have gotten pretty good at making them fast. We went from slow and clunky ramming rolling and drilling to a much more engineered and streamlined process involving melting the fuel.

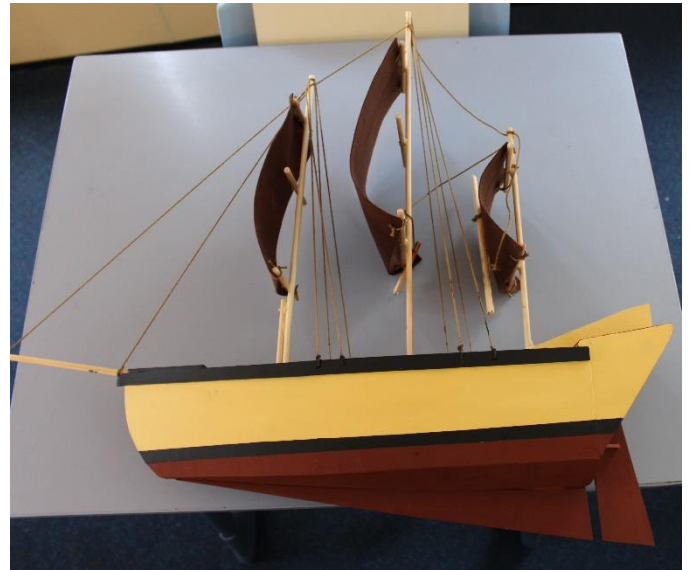
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22. Sam Stokes

Micro Bifuel Cell



The Micro Bifuel Cell is a way to create energy out of mud or any substrate moistened by getting reactive metal mesh. Coat it in pulverised charcoal for extra surface area for conductivity as the bacteria digest the substance in the soil creating energy that is absorbed and stored in the metal and then into the cathodes and anodes to be stored. This can be measured by the multimeter.



Logan Blake's model sailing ship

23. Austin Vujich

Blender



Blender is a 3d modelling and animation program. It has a variety of purposes such as design, realistic physics simulation, animation and art. Through this project, I aimed to master all of the skills listed above and more such as lighting, character animation and constructing realistic scenes. Once mastering each of the skills I put them together into a final video, called **Marbles in a Toy Box**. This video contains highly detailed objects and lighting as well as highly realistic simulations of objects.



Type equation here.



Poppy Finucane's lego

