



Welcome

to our

Celebration of

Excellence

for

Impact Projects

at

Albany Senior High School

2017

This evening's Programme

6:30-7:50 pm

We invite you to make your way through our learning commons to meet and talk with our students to find out about the amazing range of projects they have worked on this year. Light refreshments are available.

8:00-9:00 pm

The formal celebration of excellence will take place in 3D Learning Community for nominees and their families.

Welcome

From our student Leaders

Acknowledgement of Excellence

Order of learning communities:

~Totara and Kauri

~Miro and Kahikatea

~Tanekaha and Puriri

~Karaka and Rewarewa

~GATEWAY

Key Address

Our MC's introduce our Guest Speakers

Our top projects

Will be announced by our Associate Principal, Miranda Makin

Our evening will conclude at 9:00 pm with an opportunity for students to collect items to take home by 9:30 pm.

Thank you

Our Excellence Projects

From Totara and Kauri:

LTD MUG Studios

Rohan Smith, Angelo Fray, Tim Reinhold, Jordan Saunders, Kieran Woods, Max Clegg & Dylan Moore

In a world where the Roman Empire never fell, and humanity finally found their place among the stars, a galactic collapse has taken place. Humanity has been split between nationalistic fanaticism and collectivist egalitarians. How will the galaxy react to a new, unknown threat? Our project is one of the largest in the school, consisting of 7 members, all working on different aspects which focus on building up our game concept. These aspects include Animation, 3D Modelling, Sound Design and Script Writing.

Mixed Martial Arts Training Group

James Martin-Chan, Martin Killeen, Ranbir Singh, Tom Dignan, Nick Haines and Jacob Nielsen

My name is James and I started getting into martial arts when I was a wee lad: I watched Jackie Chan movies as well as Bruce Lee, Jet Li, Donnie Yen. You name it, I've binged it. As a result of these shows, I became inspired by a range of martial arts, and decided to pursue this for my 2017 Impact Project. My friend Martin and I have been teaching our team how to defend themselves using a range of self-defence techniques, including basic wrestling, jiu jitsu, kickboxing, muay thai and boxing techniques. We have also been given the opportunity to attend six free karate lessons during period two of Impact Project day

Chicken Incubatortron

Angelica Herbst

My Impact Project this semester was to create an inexpensive incubator. I decided to choose this because I was wanting to try out a science project which involved incubating eggs out of their shells but I first had to create an incubator to start with. I chose to create an incubator instead of buying one as it would cost over \$500 to buy a decent one, whereas building one myself would cost under \$10. This incubator has a manual light dimmer so as to control the heat produced, and has ice trays to create a humid environment inside the box.

Tattoos and Stuff

Hazel Black

My Impact Project these two semesters has been based on tattoos. My idea in the beginning was to create a book online to get printed. It was going to show photographs of tattoos in the first half and my art / tattoo designs in the second half. Unfortunately, the coupon for the book expired before I was able to finish. So instead, I've decided that I'll showcase my artwork in a portfolio that I have put together. I worked by myself throughout this project. I found it challenging to maintain enthusiasm and motivation, but persevering to complete the project was genuine, real-world learning for me. I'm happy with the clear progress I've made, as well as having the courage to try different mediums eg: using felt pens, coloured pencils, black ballpoint, digital etc. My interest in drawing and tattoos comes from my parents: they both have tattoos and they were always big on art, so I've been interested in it since I was little. I also get inspiration from social media platforms and song lyrics.

Hologram
Sam Furness

For my Impact Project I have been constructing a hologram concept that uses four perspex tiles to focus an image and create a 3D projection. This is designed to sit on top of a cell phone. I have used various construction and programming skills to make this come together and have greatly improved my knowledge on a range of things such as hard materials, research and development and programming. I hope this project can help inspire others to pursue their interests in technology as it has with me.

Hockey Goalie Coaching
Matthew Bernacchi

After an unsuccessful Impact Project in the first semester I wanted to try something new. I decided to try coaching hockey goal keepers, I did this because I underestimated the skill level required for this position and I lacked proper coaching as a goalie – and everyone knows that when one person teaches, two people learn. Having been involved with group projects before I also decided to steer this project by myself. I did get in contact with an expert from Albany Junior High School who arranged some students for me to coach. The most memorable moment was the first session. Getting to meet my trainees for the first time and getting to know them and their ability. I was able to meet new people and make new friends in the process. I found that, initially, the things I taught them were too advanced and I saw them struggle. The main thing I am going to take away from this project is not to overestimate the participants abilities and to take time to find out what experience they bring to the sessions.

Guide to Auckland's West Coast
Erin Makepeace and Dani Jefferson

This semester, we have spent our time filming and editing footage of hidden locations in the West Coast of Auckland. We have decided to pursue this project because as avid travellers we understand how difficult it can be to find non-touristy locations. Our biggest challenge was not finding the right locations at first, and being beginners to filming and editing. For the benefit of tourists, we have spent this time filming less-discovered locations so tourists can use this video and explore these locations themselves. The final product will be posted publicly on YouTube so that it is accessible for locals and tourists to use and discover.

Bags of Hope
Sara Cornthwaite and Sarah Yurjevic

Our Impact Project in Semester One was to sew 10 gift bags with toys inside (all sewn by us) for the children at the Women's Refuge. Inside these gift bags was a pencil case with colour pencils, a money pouch with a couple of coins, a soft toy and a colouring book. Our goal was to give something for the children to do while in the refuge home as they can be there for up to two months in hiding. We were lucky enough to get the opportunity to go and hand over these bags to a worker from the Women's Refuge in Onehunga.

Game Development

Max Clegg

A simple problem has been solved with a simple but fun solution. The struggle of getting lost in a new environment has been solved with games. My Impact Project for the first semester of this year was to create a game that allowed the user to walk around the school and orientate themselves to prevent this issue. I then evolved the game to include other elements of gameplay to prevent the user from getting bored while walking around. These other elements are different game styles implemented into the school, which the user can interact with and complete. This makes the game fun and more interesting for people who play different types of games.

Slashed Horror Trailer

Matias Cate

For my Impact Project I chose to follow my passion and interest in the film industry. After learning how important advertising in films is and beginning to create our own trailers in media studies, I decided to take it a step further by turning this film trailer into my Impact Project as a way to improve my skills in film and editing even more. The trailer was to be made in the horror genre as this genre is the easiest to accomplish with a low budget. Overall this project allowed me to navigate my way through editing software better and improve on time management when it comes to filming. I am proud of the final product and believe that it is industry standard.

Positive Parcels

Ayame Van Beusekom

“Ahh, kindness. What a simple way to tell a struggling soul that there is love to be found in this world.” Positive Parcel is a non-profit business I have developed with the aim of creating sunshine in people’s storms. I feel that mental health is often something overlooked even though there are places where people can go to seek support, I thought we could support them more, especially through something as simple as a random act of kindness. My mission has been to create innovative, hand crafted products which get put into a ‘care parcel.’ Each product has been carefully considered for its ability to stimulate different senses, as they have been shown to have a strong connection with stress alleviation. I also aimed to make the products from recycled items like glass jars and pegs. I paired up with ‘Equip Mental Health Services’ where I distributed my parcels to the families and individuals affected by someone with a mental illness. These people are going through extremely tough times, for example, having a loved one pass way. I made the parcels with the hope of putting a smile on their faces and reminding them there is something to smile about. Being able to see the beaming smile of the first person who received a parcel and hearing them say “This made my day. Thank you.” has been an extremely rewarding experience.

NZ Wedding Directory Brokers

Steph Savery and Georgia Southon

NZ Wedding Directory Brokers are a business that creates information packs for engaged couples. This is with the intention of making it easier for engaged couples to plan their wedding, as well as to help small NZ businesses gain brand exposure, by having direct contact to their target market. There are many different businesses in the wedding industry and it can be hard and overwhelming for engaged couples, to find what they are looking for in their regions, so our packs separate by North and South Island vendors. In the packs we have vendors advertising, discount vouchers, sample products and helpful information and tips.

Strandbeest

Matthew Lee and Kade Ridley

A Strandbeest is a wooden kinetic sculpture that moves with very little effort. The strandbeest is comprised of a minimum of 6 moving legs with two triangles moving around five pivots. This model was designed by Theo Jensen who has gone on to make even more complicated Strandbeests such as one that moves like a snake and one that avoids water. What inspired us to take on this Impact Project was the fascinating way in which the Strandbeest moved. So we wanted to make one ourselves to see how the mechanics behind the sculpture really works. As for how this strandbeest moves, it's very difficult to put into words. If we were to sum up how it walks, it moves like the legs of an insect.

Pure Music

Serena Chen

For this Impact Project I'm doing a series of compositions called Pure Music. Music is happening in my life everyday; I suffer when I don't listen to music for too long. The reason why I chose to do pure music is because I believe without lyrics music can still express emotions and feelings. It's a language for me: a language that I enjoy so much and I'd love to let others feel the same way. My purpose is not practising being a pop star or a musician, but I want to know more about music and learn how to express myself through music. Additionally, this is the first time I have taken on a composition project so I have learned a huge amount about music, instruments and writing.

Bespoke Tea for Me

Liberty Saville-Hoy

Designing and manufacturing loose leaf tea flavours. HomeMade is a prototype business made from the love of tea. When I was given the opportunity to create anything I wanted for Impact Project I found it hard to think of a task to complete. However, as a student who drinks multiple cups of tea a day, I very quickly realised I could turn this passion into a project. I came up with the idea of creating my own tea blends. When coming up with the flavours that I wanted to create, I based them on the seasons: In winter we try to get cozy and warm so I thought of a tea that would fit in with that. Vanilla and caramel black tea was a snug fit. For spring I made a warm but refreshing tea for people after a lighter, more fruity blend in the warmer months. This is green tea with lavender and raspberry. Summer calls for the crisp and sharp flavour that a mint and lime combination offers. Finally, in autumn you can enjoy a white tea with cinnamon and honey, a perfect compromise well-suited to this changeable season.

DIY Biltong

Ethan Dillon, Daniel Martinez, Peter McPherson and Liam Reitsma

Our Impact Project is about constructing a box that will make biltong. We decided to make a video to go along with it and thought that animation would be fun to use and good to know. Our end products are a video, the biltong box itself and some of our biltong with a survey. The reason we decided to make this was because biltong can be expensive to buy and being able to make it would be fun and cheaper! We decided everything for the perfect product for us. We made the video so people can learn how to make it instead of going in blind.

Exploration for the Future

Daniel Bindon

The aim of my project was to explore possibilities for future careers. For this, I went to three different work-places to see what they did and how they did it. I went to the Auckland District Court, Albany Vet Clinic and AJHS. I was really fortunate at both the vet clinic and AJHS to be able to work with their staff who were able to answer my questions. I feel that it was successful because I was able to know what these people did for their jobs, so I had hard evidence rather than just speculation on what I thought they did. I was also able to help teach some of the science experiments and pass on what I had learnt in my own science lessons. My greatest achievement was actually making contact with these people in these industries as it was something I felt uncomfortable with before. I think going forward, the skills I have learnt about communicating will be useful for the future as I will need to be able to contact people I don't know.

Chicken Coop – The Hilton

Destiny Rerekura

For my Impact Project I made a chicken coop for a teacher at school. I like building things and had some skills gained from taking technology in years 7-10. I had to interview the teacher to work out exactly what she wanted, the style of coop and number of chickens she hoped to house. After our initial designs I worked with an expert to refine my ideas and agree on the final design with my stakeholder. So my final design is an A-frame shape chicken coop, built in two different halves so it is easier to relocate in the yard. I am really proud of my final product, and believe that is the kind of coop any chicken would be happy to call home.

Oldies Arts and Crafts

Isabella Antonio and Zarah Hossain

For our Impact Project, we visited Patrick Ferry House, which is a retirement home and we helped out with activities relating to arts and crafts. We were inspired to do this as our Impact because we both love spending time with elderly people. We thought it would be an especially nice experience to work with elderly people from the community whom we didn't personally know. It was a privilege spending time to get to know these people, helping them with activities and to hear stories about their life. Our main focus was creating arts and crafts with them, like painting and cardboard crochet. The Activities Manager from PFH usually runs a programme called "Food for the Souls" where they sing songs and read poems for their spiritual well-being. Overall, we learnt a lot from the people we visited each week. We really enjoyed doing this Impact Project and we are thinking of continuing this for the next few years.

Tattoo Art Book

Mira Young

Through Impact I created and published a book called "Wear Your Art". The book is about different tattoo artists around Auckland. I interviewed each of the artists personally, asking them about their morals and experiences through tattooing. Not only was the book created around the artists themselves but it's also a lot about tattoo culture in different countries. The idea behind the book was to try to break down the bad reputation that tattoos have. Through making the book I think I have impacted several people's beliefs and perspectives about tattoos and art in general. The book has impacted my life hugely through simple things like improving my grammar to helping with my social anxiety. I've been able to achieve so many things through the book and it was such an honour to be in contact with everyone involved.

Used Clothing Business Venture

Liam Shires

My Impact Project this semester was to start a small Trade Me buy and sell business. My idea for sourcing clothes was to go to the hospice shops and buy cheap men's clothes, clean them up and sell them on Trade Me. I thought if I could make a profit I could continue this as a small part time job over the upcoming holidays. Sadly that wasn't the case. Keeping up with the process of sourcing the clothes and finding decent clothes that would sell was hard. But nevertheless I managed to make one sale for \$5. Overall, I learnt a lot but the biggest thing was to make sure you do plenty of market research about what sells well in your area. Do more research than you think you will need to: I found that out the hard way. This project was a steep learning curve for me but I'm glad I gave it a shot.

Pre-School Ballet Teaching

Honor Norris

For this project, I have been learning to work with, and teach, preschoolers at my dance school. I have also been observing their abilities and development at their different ages and stages. Since I was a preschooler, I have had a passion and admiration for the art and sport of dance and have been participating and competing in it. As well as this, I have found a more recent love for working with young children and a wonder for their rather unpredictable but adorable nature. Therefore gaining experience in the area of teaching dance to preschoolers was a perfect area to explore possible career options while at the same time, contributing to the next generation of our community by teaching them fundamental skills that assist their development. This project has been very beneficial for me because of the skills I have learnt interacting with young children, as well as with other teachers. From a business perspective I have gained invaluable experience working with the owners of the studio – something that I would never have learned about seated behind a desk in a classroom.

From Miro and Kahikatea:

Children of Kings – A Fantasy Novel

Benjamin John Rutherford Forrester

For the last 5 years I learned my passion and worked to realise just how desperately I want it. Those past years I've spent working on a fantasy novel based in the magical-medieval world, known as Draendica. This year I sacrificed my sanity and haggled my mental health in the name of finishing it. Which I'm overjoyed to say, I have. It has been a massive effort in determination, self reflection, resilience and creativity, never failing to break my head with problems I never thought I'd ever have to solve. All the same, I'm not the same person who started this book and despite how often it's left me in tears, I know there's nothing I'd rather do. Also, I get to be the god of my world and that's all kinds of satisfying. On a less humble note I have learned a great deal about the craft of being a word-smith from the significance of sibilance to how to most horribly murder a metaphor. And as well as that, I learned a terrifying amount about myself, including that I'll not hesitate to kill characters if it proves my point. The book is over 550 pages long, and I have edited it more times than sense can explain. I invented languages, crafted civilizations and raised religions from my thoughts alone. The end goal is to find someone mad enough who shares my lack of sanity to publish it, some of which I'm in contact with now.

Stratosview

Callum Smyth and Ben Lewens

Callum and I wanted to go to space! Obviously not our physical selves, but using a weather balloon, parachutes, a capsule, cameras, and a GPS tracking device to get footage of NZ from ground level to an ascending view of 100,000 feet. We researched the physics and meteorological science behind a project like this, learning from meteorological clubs as well as NASA. We are grateful to Nikon, who sponsored us a 360 degree camera, NIWA, who is sponsoring us the weather balloon, helium, and atmospheric tracking / research devices and coming with us to participate with the launch and collection of the capsule, and Marius van Rijnsoever. After building a balanced and level capsule, and preparing all of the equipment for the flight we are now in contact with NIWA just waiting for the weather to settle, as we want the perfect conditions for our flight, so that the video we capture will be the best it possibly can. We want to inspire the youth of New Zealand to not only protect the environment we live in but strive for something bigger than they initially believe to be possible.

cmae Art

Chelsea-Mae Wheeler

My work has been transformed this year; I am told I am no longer a timid and very private 'doodler' but am now "a confident and talented business woman and artist!" I am exhibiting at an Art Gallery currently in Mairangi Bay and selling my artwork online on three platforms and in person at weekend markets. I have done a few very successful commissions and am in the process of negotiating with Barbara and Sally about a commission for the school. I have collaborated with other students to develop my online presence and website and with adults when talking to shops and exhibition organisers about ways to take my business forward.

Promoting Volleyball at ASHS

Olivia Jury, Kyla Lindeque, Michaela Brock and Alicia Brock

We have designed a program to promote volleyball at ASHS. The program features organising, designing and producing training tops for the Development Volleyball team at ASHS. We hope that these will spark interest for peers to join the sport and try something different. Additionally we have organised the beach volleyball program at ASHS. We have formed 4 teams to compete and represent the school in competitions and tournaments for the first time ever. To do this we had to design and produce a unique playing uniform that promotes beach volleyball at ASHS, but also is comfortable and helps the players feel confident in a heavily body shamed activity. To enhance player skills we have entered them in both the regular weekly tournament, as well as the North Harbour SS and the Auckland SS. We have also organised pre-season training sessions as beach volleyball is a new sport to ALL our players.

Mental Health YouTube Channel

J.C. Dichi

A YouTube channel dedicated to helping people, mostly teenagers, cope with whatever issues they're dealing with. I make a video every week, well almost every week, talking about mental health issues and issues in the society. I actually challenged myself to make a video in just one day, that included filming, editing, processing, and uploading the video to YouTube. My main goal for this project is to improve my knowledge and skills in film making, and also, spread happiness and make people smile.

Picture Books

Jack Cameron

I have written and illustrated my own picture books. I created a series of original characters and stories. I used a power point program to create the characters, making a base character then adapting its design to the parts of the story. Many parts of the stories are within settings from around Auckland. I have had a huge amount of fun creating these stories. I have learned to master power point animation. I have created 2 different stories this year. The story lines reflect the creative and unique things I see in the world around me.

Discover Auckland

Olivia Jury and Hannah Jury

This project was about bringing attention to local walks around Auckland and encouraging people to explore these walks and go outside. Our issue was we saw these secret walks just a few minutes from our driveways, unused and unappreciated. We also saw teenagers who were leaving and exploring other countries on expensive exhibitions, when in reality a free of charge equally as great alternative is in our backyard. We visited and blogged several walks promoting them on both our blog and our Instagram. In the posts we rated each walk, including how friendly it is to wheelchairs, prams and dogs.

The Street Store

Jessica Lee

The Street Store is an event that brings the community together by bridging the gap between the rich and the poor, making it easier to donate and more dignified to receive. People donate quality clothes on the day, and the homeless are given a dignified shopping experience. For those who may be facing homelessness this may not be what they usually receive. They are free to choose clothing that they actually want. We often have a 'beggars can't be choosers' mentality where we think only those who can pay deserve the right to choose, but this mentality needs to change. The Street Store also increases awareness for people experiencing homelessness, letting them know that we care and support them. Homelessness is an increasing issue in our community of which there are still negative stereotypes surrounding it. It's important during times like this that our Auckland community supports each other with kindness and compassion.

ShareThru

Tony Tsoi, Takashi Kamata, Joon Kwon and Lachlan Fordyce

'ShareThru' is a Raspberry Pi-based classroom content transmitter. Our intent is for our project to be implemented throughout the Learning Community areas around Albany Senior High School. Teachers will have the ability to take images and video on demand of their whiteboards, meaning content can be recorded for students to review and (re-)watch. Our aim is to improve the learning experience of students, and to make revision of class lessons easier. From our working prototype, we hope to set up multiple devices around the school.

Project Lotus

Niamh Curd, Maya Given and Shyanalea Hatchett

Wall hanging flower sculptures from recycled materials, inspiring positivity. Our project is an art piece which takes the form of 3 lotus flowers of 2 different sizes. On our biggest of the 3 flowers we plan to write positive and inspiring quotes. We have used psychology to choose our needed colours for the flowers which are pink, yellow, white and green. We have also chosen quotes we think match our purpose which is to help and remind people to be positive.

Sci Fi 3D Modelling

Stephen Kelsey

After an unsuccessful Semester 1 Impact Project (attempting to make a short film), I used the skills I did learn from that project to produce various science fiction starships which will feature in my writing project, Ross 248. Using Blender, I first modelled the ships and then began applying textures. The end result is a high-quality render of each ship from multiple angles, as well as a final 'info sheet'. I have also produced small low-quality animated clips.

Someday Challenge – Documentary on Social Activism

Seth Kirk and Sam Collings

A short documentary that seeks to explore, explain and assist in escaping the apathy that all of us feel around the issues that really matter. Be it climate change, the refugee crisis or just getting out there and doing some good in the world, it seems that there is an enormous disconnect between one being informed of these issues, caring about them and actually getting up and doing something to fix them. This film features interviews with people such as Russel Norman, CEO of Greenpeace, Mahsa Mohaghegh PHD at AUT and founder of She#, Helen Robinson of the Auckland City Mission and many more. The hope is that by hearing the stories and perspectives of these activists and comparing them against the viewer's own and the perspectives held by "average joe" documentary subjects some kind of solution or interesting information on the nature of activism can be attained. This has gone from an idea from a media student at the start of this impact semester to a project that has involved learning about documentary techniques from professionals, learning and operating film making equipment and managing the logistics of getting to and interviewing people from every type of organisation conceivable.

Watt Skills

Courtney Watt

Watt Skills is my first ever Impact Project so I decided I would do something I love and am passionate about. Field Hockey Goalkeeping. I was originally going to pursue this project for only one semester but my ideas just kept expanding. My project involves a hockey goalkeeping booklet, which has been developed over the course of the 2 semesters. Bio mechanics, which I decided to incorporate in the second semester to enhance the skills I have learnt. I also created a YouTube channel so I could share my project with the world.

Theatre Costuming – My Fair Lady & A Midsummer Night's Dream

Aria Harrison-Sparke

I decided to embark on this project after my experience working on Macbeth in 2016. I started my year working on My Fair Lady but in the back seat of the car instead of the driver's seat. This enabled me to be a part of putting it together but also observe the process in order for me to graduate to the driver's seat for the Shakespeare, A Midsummer Night's Dream. During the design and creation of Midsummer I brought techniques from the first play and learnt new skills such as record keeping, processes of management and technical fabric skills. I feel that this is the most important because I first learnt how to have control and show the school in its best light but also for personal gain to show myself what I can pursue and what I am capable of. I think the most interesting thing about my project is the world I've been able to create with the costumes. Each character displays part of a story that adds to themselves or to the play. Some look straight out of certain eras and others are a fusion of time mixed into one. To me this adds to the effect of a fantasy world carried throughout the play.

Animal Portraits

Cayleen Bester

The SPCA is an organization that takes care of animals that are abandoned or abused and finds them new homes. I had a look at their website and decided I wanted to help them out in some way, so I drew portraits of pets - mostly dogs so I could give the money I earned from selling portraits to the SPCA. By the end of the semester, I managed to earn \$50. I learned a lot of important skills from this project, the biggest ones were commitment and patience as each portrait I drew would take around 4-8 hours. When the project was finished, I had drawn around 9 portraits - that's about 50 hours of drawing portraits line by line! I also managed to interact a lot with the community in this project. I worked with my first ever customer, my peers around me who gave me feedback to improve my drawings and my teachers.

Deforestation Artwork

Robert Cotmore

My Impact Project is a conceptual artwork that had the intentions of making passers by think. Think to themselves about what we are doing to this world, to our forests and the effect it has on the world. I used multiple artistic techniques to portray the themes with images not words, as well as using the images to catch the attention of viewers. The final piece is a meditation on capitalism, apathy and deforestation. I have tried to make the theme of the artwork as obvious as possible without overloading the piece. The world is the centerpiece of the work, being held by a giant hand and it has literally been set on fire.

Writing a Musical

Sian Vaughan-Jones and Georgia Knowles

This semester we decided to work together to create a new and original musical with a script and score. We completed the first act of the show, and while our original intentions were to write the full show we altered our success criteria due to the amount of time required to produce something of a high standard. We are both passionate about music, and having a specific interest in musicals, we wanted to challenge ourselves to compose new and interesting music which would tell the story of our show. We chose to write a musical with a mystery running through it because when we began composing we enjoyed the tones that this idea created in our music. Throughout the project, we were fortunate to receive feedback and guidance from musicians and teachers which helped us to craft and create the show. From our project we have not only gained musical knowledge, in terms of composition and the structuring of a musical but we have gained skills in teamwork and collaboration, time management and most significantly, creativity.

Making a Snowboard

Natasha Quensell, Arran Lance and Alyx Turner

The Snowboard project was a passion driven collaboration to design and build a personalized snowboard that was cost efficient whilst still looking professional and stylish. We decided to do this project as snowboarding is our passion and we wanted to know more about it. Over the first semester we successfully designed and built a snowboard that included some unique features never before seen on a typical snowboard. We took risks with this project as we had nothing to compare our adaptations to and nothing to measure the possibility of failure against, however key community connections with experts in fields such as Engineering, Physics and International snow companies gave us quality information and expertise that helped to limit any potential failures. This project has really shown us all the underlying necessities that are required but often overlooked with this sport. The process of building has also equipped us with useful hands on skills and confidence that we can carry over in to other areas of our lives. Not only have we gained a great amount from this project that will assist us on a day to day factor, but we also now have a working snowboard that rides like a dream

Mural for Glen Taylor Primary

Kaitlin Dedman and Isabella Hood

This was definitely our favourite project for this year. It all started when we were put in touch with the Principal of Glen Taylor Primary, a Decile 1 school in Glen Innes. They had recently been on Fair Go because they had raised enough money for new kapa haka uniforms and the artist they had asked to do it ripped them off, leaving them without any uniforms or any money to pay someone else to do it. One of our awesome head students, Seth, contacted them immediately and asked if there was anything we could do for them. They said yes. They explained that they had recently updated their school motto to F.I.R.E (Fun, Integrity, Respect and Excellence) and said they would love a new mural! From there we started collaborating on different ideas and brainstorming with them on what they would like to see represented in the mural. This is currently a work in progress. We are so excited to be working with such an awesome school creating an amazing final product for them to get excited about.

Sisters of Shred: Skateboard Instructing

Tanja Swanepoel

My project was all about growing the female skate community. I could see that the female skate community in Auckland was almost non existent and it's no surprise considering all the barriers that there are for girls who want to skateboard. That is why I have created Sisters of Shred, a girls skateboarding group who aim to empower girls through skateboarding by breaking down the barriers for girls who want to skateboard. I have partnered with OnBoard Skate School who have been the facilitator for the girls skateboarding programs and events that I organise. We have received funding for our girls programs for the next 12 months for the North Shore. We have also received funding to expand our programs in South, West and Central Auckland. I strongly believe in the impact that we have made in the lives of the girls we have influenced. We have a strong community in the making. There are no plans to stop any time soon and we are regularly approached by organisations asking us to run girls sessions for them. This project has been a huge learning experience for me, one which I am very grateful for as it has taught me a lot about people, business and myself.

EQUAL: Feminism Poster Campaign

Coco King, Marina Hay, Sophie Brown and Sammy Holmes

Our Impact Project has been a photography campaign to promote women's rights. We are a group of Year 11 students who are trying to make a change in the way women in our society are treated and to raise awareness about some of the challenges that women have to face. We, as a group, decided to explore women's rights because we wanted to truly understand the issues surrounding equality. We created posters as a campaign to make a difference in our school and we created a Facebook page and posted the photos that we had produced to reach a wider range of people in our community to make a bigger impact on our society. The name of our Facebook page is 'EQUAL'. We decided to name our project 'EQUAL' because it is all about creating an equal society for men and women. The photos we produced tackle some of the key issues that women face and make people realise the way women can be treated and make them think about the true meaning of equality. We hope that you have seen these posters and you will take a look at our Facebook page. After seeing what we have done you may rethink some of the things you say and your actions to help create a more equal and aware society.

Building a Headboard

Liam Shires

My Impact Project was to make a headboard for my king size bed. I chose to make it out of macrocarpa wood and have a unique design that combined other headboard designs together. The idea I had for my design was a cross kind of design that met in the middle and angled down to the ends. When I first started the headboard I had never done anything like it before so I was kind of thrown in the deep end. But after hours of measurements and sanding I finally finished my headboard. I am very proud of the end result. One thing I learned was, if you want to make furniture be prepared to do A LOT of sanding. But the main thing I learned was perseverance. Would I do this again? Probably not, the outcome was awesome but the labour was HUGE and it was a good learning curve.

MAD Art Support at AJHS

Cathy Zhou

My Impact Project was to help as a Teacher Aide in a Year 7 to 10 option MAD (Make A Difference) class involving art at Albany Junior High School. The project allowed me to take my knowledge and passion for art, and share it with other students. Through this, I was also able to improve my communication skills by learning how best to effectively communicate with the younger students in a manner they would understand and learn most from. The end product was an exhibition that was held at Albany Junior High School which showcased the students' work. The involvement I had in the product is shown through the development of the works done by the students. I was also reviewed by the students and the teacher I was working with, and from that, I have learned what I could improve on for future reference. My project also gave me the opportunity to work within a wide community - helping the students to expand their horizons within art and learn some new skills, and the wider community was able to enjoy viewing the students' pieces.

For Tanekaha and Puriri:

An Illustrated Novel from Scratch

Kathryne Kortegast

The aim of my project was to continue writing my novel and this semester my goal was to illustrate at least fourteen of the chapters. The novel written, Science, Eternal Life, and a Travelling Circus is a science-fiction adventure, and has a new twist to it: the story possesses two endings. The reader decides the fate of the characters at their close. I spent the majority of my free time outside of Wednesdays to make this project work. On one day, I spent eleven straight hours editing. With all the time and effort that I put in to complete the book, to see it finally finished is extremely rewarding.

Cube Rider Group: Albert-1

Amy Irvine, Anamitra Nair, Jessica Lee and Tiana Williamson

Space has never been so accessible by humanity, and as science progresses one begins to wonder whether a civilization in outer space will be possible. If this is the case, other organisms will join us on the journey - bacteria - so how will they behave? Our project allowed us to carry out an experiment in Space. With the help of Cube Rider and several mentors, we were able to code a SAGAN board on the International Space Station to measure temperature, infrared and acceleration while the station was in orbit. We applied our findings to investigate how micro-organisms would grow in the measured conditions. Our findings and research indicated that bacteria would definitely vary in Space. Different temperatures prompted different cultures of bacteria to grow, and research indicates the lack of gravity would change the structure bacterium cells would form in their colonies. From this project, four of us learned to code a board, investigate an exciting outcome of the future and complete the Royal Society, CREST award.

Cube Rider Group: Caeluna

Joon Kwon, Se Yeon Han, Lachlan Fordyce

Our project, as part of Cube Rider, aims to show how the acceleration of the International Space Station (ISS) changes along three dimensions throughout its period of orbit. This involved programming using a Raspberry Pi and sensor board to collect data from on board the ISS, giving us an insight of the conditions astronauts on the space station encounter. We found how the acceleration of the ISS fluctuates along the axis', indicating rotation around the Earth. Within the 15 weeks of experimenting and prototyping our own experiment, we established a deeper understanding of the International Space Station and learnt a new programming language - Python. From our results, we could identify the specific time during the monitoring, when the ISS thrusters were fired, maintaining its orbit and circular trajectory.

Cube Rider Group: Solar Flare

Twane Kellerman and Blair Ellett

As part of the Cube Rider project we were given the opportunity to program a raspberry pi to take environmental readings, such as detecting the presence of ultraviolet light, which was then used to record information from the International Space Station (ISS). Our team chose to focus on the magnetic field readings recorded from the ISS. We found that though the magnetic readings show a relatively constant chance across the X, Y and Z axis, the readings along the X axis were a lot more variant. This leads us to believe that the readings along the X axis were influenced by something other than the natural magnetic field produced by the Earth. This project allowed us to analyse the potential influence that solar activity may have on the Earth's magnetic field. It also allowed us to work on a project that goes beyond the scope of regular school, since we were able to gather data directly from the ISS.

Cube Rider Group: Trappist 2

Cassie Burn, Kayleigh Waters, Neha John and Hayley Harris

The cube rider project is an education program for students to learn STEM skills through experimentation in space, coding experiments and analysing data received from the International Space Station. Our group was called Trappist -2 and we focused on finding the humidity, temperature & atmospheric pressure up in Space and comparing them to that of Earth to find suitability for other species to survive in space other than humans. Our highlight was that we got to talk to the the North Shore Times about our project.

Children's Story – Quirky (Working Title)

Claudia Howett and Jesse Cameron

Quirky is a book that we wrote based on our combined personal experiences growing up and being surrounded by horses. We both decided to put our common love for horses into our project. We wanted to spread the message that children should be happy with their differences or 'quirks' and not care about what other people think of them. When reading our book, children will learn the importance of their 'quirks' and gain an understanding of how everyone is unique so we should be confident to be ourselves. They will learn that what other people think is not important, they are awesome and unique just the way they are. Our children's book has turned out quite successfully because we were able to get a publisher, and our next step is to get our book sold at commercial book stores i.e. Whitcoulls or Paper Plus. We wrote, illustrated and edited all of our story and got a self publisher to print our book. We are currently waiting on the 25 copies of our book and from that we will be approaching the companies mentioned.

Roboclub Tubetorials

Simon Alexander

My younger brother Aidan (11) and I created Roboclub Tubetorials, an online video based learning program that allows children to develop their understanding of how digital technology works. Digital technology has always been a weakness within primary and intermediate sector and with the new digital technology strand of the curriculum being released next year, we hope that our Tubetorials will influence educators and youth. At the moment, teachers may not have the skills to effectively teach this developing strand and so our project may assist in closing the gap by providing resources to improve their teaching in the classroom, no matter their skill level. Our videos are intended to help students learn and work at their own pace whilst allowing teachers to concentrate on supporting their learning where needed. Throughout the year we have worked with several educational leaders like Cognition & Core Education. Trials have been running with several Auckland schools in the Primary sector. In October 2017, we have been asked to present two workshops and one presentation at New Zealand's Digital Learning Conference for schools as well as at New Zealand's biggest educational conference, ULearn 2017.

ASHS Dollhouse

Caitlin Fisher and Caitlin Hoban

For the ASHS Dollhouse project, our goal is to create a scale model of the school in the style of a doll's house, with accurate interior and exterior designs and embellishments. This model will be similar to a 3-D map of the school. We are going to install lights to indicate certain sections of the school, which correspond to buttons that label each of the sections of the school (3A, library etc), creating an interactive 3D map of ASHS.

Biztap for Networking

Ben Howard

Biztap is a new business networking tool, that allows for the quick passing, saving and sorting of business contact information. Biztap will use a variety of ways of adding contacts including tapping phones, searching up people's contact and using real business cards that allows the business cards data to be saved to an electronic format. The main technology behind this is NFC and NFC enabled phones, which allows for data to be sent over small spaces on request. The contact information will be sent through NFC and then displayed on the other person's screen. The contact information will be the equivalent to a business card, apart from the fact that the information will be constantly updated meaning that your contact information will never go out of date or be lost and can be easily stored and retrieved on demand.

Knitting Babes

Sara Cornthwaite, Lisa Smith, Gini Huang and Sarah Yurjevic

We have been working on knitting clothes for babies who are hospitalised at Auckland's Middlemore hospital due to respiratory diseases. Our purpose was to give these infants warmth and love through our knitting. As a group of four, we've worked together to make multiple beanies and booties in all sorts of sizes and colours for these infants. By making links with the Middlemore foundation, we were able to personally deliver the created products to the children. We also worked on filming tutorials which taught the basics of knitting. These videos are open for Albany Senior High students to watch on the ASHS academic committee YouTube channel to inspire others to take up the art of knitting. Throughout this project we learned complex knitting techniques and we encountered many obstacles that required patience, precision and time management. Ultimately we wish to have impacted people around us in the school and the wider community through our project this semester.

Biochar Business

Mathew Lawrence and Jamie Harrison

This semester we have taken to helping the community by assisting a local business to get started. Over the last semester we have helped by taking charge of the production, marketing and distribution of the product which will go on sale shortly. We have set up a business plan for Ruddi Pilkington, so he will be able to sell his product around New Zealand helping the community and the environment along the way. Online we have designed a website for his business where potential clients can see first hand what his Biochar can do. At the same time we have contacted stakeholders in the business weekly to make sure they understand what we are doing and so that we can collaborate on next steps. We have worked closely with teachers in the school, along with Massey University and numerous suppliers to help get this product off the ground. We believe that we will bring the product to the public sector in the very near future. We wholly believe that Biochar is the future of sustainable energy. This semester we have worked with Ruddi and have utilized the properties of Biochar, and for now we will be selling it as a sustainable fertilizer for farms, home growers and businesses alike. Later, we hope to use Biochar in creating a clean and green water supply while at the same time, selling it as an additive to clay which would effectively turn it into a usable soil.

Photography

Aurelia Torkington

In my first Impact Project in semester 1 last year I was just simply messing around in the photography studio, figuring out how light works and how to use a camera. However, from there sprouted a passion that has slowly grown into something that I hope can be a career. This semester my goal was to turn my photography into a business and it has been successful! I have done shoots with New Zealand music artists, gotten a contract with Girl Undiscovered and gained an internship at Thievery Studios. Wednesdays have given me the opportunity to first find my passion and then transform it into something profitable and beneficial for my future. With the help of in school teachers and outside mentors I've had just the right amount of freedom and direction to help me get to where I am so that when I leave school I can have the real world skills and experience to help me get ahead.

Veterinary Experience

Abbie Bazeley

For my Impact Project I have been lucky enough to get the opportunity to work towards my future career path and build my skills in the field of veterinary science. I made contact with a local veterinary clinic and was fortunate enough to have a placement where I was able to observe and gain experience in consults and surgery practices. This opportunity encouraged me to take up a career as a veterinarian and allowed me to gather the minimum eighty hours work experience at a clinic which is a prerequisite for getting into the veterinary science course at Massey University.

Kpop Street Performances

Jasmine Moon and Cindy Yoo

For our 2017 Impact Project, we decided to challenge ourselves to learn a new dance and complete street performances. Throughout the semester, we extended our Impact Project by completing street performances to Kpop music and Kpop choreography. We wanted the wider community to understand what Kpop is about and promote it as we believe this is one way of showing and expressing our Korean culture within New Zealand. We wanted to break the stereotype of PSY being the representative of Kpop and show that Kpop can actually have a wider fan base.

AsOne

Kayla Turner and Caitlin Hancy

AsOne NZ is a company which we have started in order to raise awareness for the disability community. We have partnered with the charity Parent to Parent in order to create tote bags which raise money and awareness for Autism in New Zealand. We started this project in order to make a difference in a community which we have had very little experience with. Through this project we were able to grow our own knowledge of autism, and pass on this knowledge to help create a more accepting society. We have had an awesome outcome from this project, including an interview with Stuff, a trip to Wairau Valley Special School and a partnership with prominent graphic design company Little Giant. Overall we sold 223 bags, and made a \$476 donation to Parent to Parent Auckland. This is an amazing result for us as we sold nearly double the number of bags we were hoping to at the beginning of our project.

Anxiety Toy

Aiden Leddy

The aim of this project was to teach people like myself self help techniques for mental illnesses. I believe that everyone has a right to get help and there are many people out there who are unfortunate enough not to know of these therapeutic methods. To try and achieve this, I researched and compiled a list of self help techniques and designed toys that would lessen anxiety. I worked with some stakeholders and some people outside of school, such as Margaret Lockhart from the Mental Health Foundation of New Zealand. Although I did not fully achieve all of my goals within this project I believe I was successful in developing project management skills. One of the highlights from this project is doing something professional like this at my age and just appreciating the opportunity Impact Projects offer.

Vinyl Revival

Jemima Pratt

Due to the growth in technology, the younger generation is accustomed to having everything available from a smartphone or other devices. Music can simply be downloaded and played at any time but I think it is important that they are exposed to the physical playing of quality music and the wonderful experience it becomes when surrounded by a sound that isn't captured through a phone. My Impact Project involved me creating a unique opportunity for students to borrow vinyl records from the ASHS school library as they would a book. It allowed them to be introduced to and inspired by music that they may have never considered otherwise. I have been making connections with Ace Kitchens Ltd. to build a display unit that will be used for housing and displaying the vinyl records in the school library. My hope for this project is that it will encourage my generation to appreciate the revival of vinyl records and may encourage an appreciation of past decades of music and its place in history.

Cultural Passion of Art

Jaks Betz and Rosie Betz

We had moulded terra-cotta clay into thin masks to put on a hardboard canvas. The multi-cultures in ASHS are represented by different cultural designs on the masks and on some of the people's bodies. The masks are placed on the canvas with lights behind it, which will stay at the school to add to its beauty. The lights behind the masks are being used to draw attention towards them and to create a warm appearance rather than appear lifeless. The people on the main board canvas are neutral in their clothing and gender. This artwork is about how all the cultures together make one big family, as seen by the appearance of the figures looking like a family portrait. The figures on the board are painted as some of the skin tones you would find in the world; however the aim of the project is not to focus on race or gender but culture. This project is intended to promote cultural diversity and cultural awareness within the school.

Beam Box
Neha John

My project is an infrared transmitter & receiver that works based on an electrical circuit to pick up sound waves which are converted into light waves (infrared red waves) and these light waves are picked up by the receiver to play music out of the speaker. This project was inspired from my passion for science. I wanted to do something that was related to my subjects as well as something that would really interest me and be fun to do. The progress that I have made with this project is actually unbelievable for me to even comprehend, as it's my first time building something from scratch. As far as learning goes the whole experience has taught me how to work on electrical circuits and skills in soldering on vero boards.

O“fish”ally Arti“fish”ial
Mikayla Scott and Cole Palfy

We are creating robotic fish that are able to control themselves using AI. After the fish in Tanekaha were removed we decided that we would find a way to fill the (now empty) fish tank. Working closely with Senior High's science department, we were able to learn the skills needed to program artificial fish that would not require the maintenance of a living animal. Through many setbacks with parts not arriving in time and programs not working as expected, we have managed to get the fish to detect obstacles and walls; moving around them using Arduino technology

Anatomical Correcting Sprinting Brace
Sam Potter

My Impact Project has required me to analyse my sprinting technique and design an arm brace to help me correct my movement when I'm training. I am very passionate about improving myself in my sprinting as I am currently second in New Zealand for 400m and aspire to be first. The main problem with young sprinters nowadays is incorrect arm positions they will either extend their arms too far or bring them too close to their body. This will cause movement in the shoulders and will change the whole style of the runner. I have built the brace in my garage and have expanded my knowledge further by making contact with 'Hand On' rehab, a well established rehabilitation company that works with all kinds of injuries, 'Rex Bionics' a world leading industry in spinal injury problems and 'NSALS' who construct artificial limbs in New Zealand. They have helped me by letting me use their moulded plastic, find ways to attach it to my arm and secure it in the best position. All of my stakeholders have given me advice about business to drive my project forward and they have offered suggestions that I would never have thought of alone.

Candle Lotus
Alissa de Beer and Cheyanne Figueroa

For our Impact Project we made candles from scratch and this has worked well alongside my current business project at school. We are making and selling the candles to whoever is interested in buying them. We have expanded our range of candles over the course of this Impact Project semester and scents range from cupcake, plain, glitter, and watermelon. We intend to provide a third of our profit to a yet undecided charity.

Sensoring Overload

Yubo Deng

My project in the first semester of this year was designing and creating a small alarm clock that comprised of a large LCD screen. It is based on a micro-controller which I programmed for this alarm clock. The clock has a lot of functions allowing you to set 6 different times for the alarm. The alarm can be set so that it only works during the weekend or you can set the clock to only work on weekdays. It has a calendar and can tell you when festivals are occurring and two festival dates can be displayed on the screen. The clock connects to a temperature sensor that allows you to read the temperature from the screen directly with a range from 0-60°C. It also has a photo-resistance so the clock can adjust the background light automatically. You can also set the brightness of the background manually with 9 different levels of brightness.

Pamper Plus

Hannah Casey and India Kean

Pamper Plus is a self caring range that is all natural and good for you. We created this brand and made all of the products ourselves. We have made lips scrubs and lip balms but if we were to continue this project next year, we will make soaps, face masks and many more pamper products. For this semester we aimed to finish the lip balms and lip scrubs with full branding and hopefully start selling them. We have achieved this except for selling them. We plan to start selling them next year if we decide to continue the project. Doing this project was very enjoyable and interesting and taught us a lot about the cosmetic and the branding world. We learned that to sell products you need to create a logo / packaging that will be eye catching and upmarket but at the same time creative. One thing we struggled with was ordering the ingredients and getting them quick enough to make our products. In the future we will bulk order and plan more in advance for the things we need to purchase. Overall we both enjoyed this impact semester very much and would love to do another project together in the future.

Impact Project Website

Aaron Quiat and Lauren Adams

We are going to create a website which will allow for online Impact Project resources to be available in one place. The purpose of this project is to make it easier for students to generate ideas, join and create groups and read about past Impact Projects at this school. If there is a project that students would like to pass onto others, this website will be a good site for students to go to to pick up these projects, adapt them and make their own. An ongoing part of our project is to survey teachers and students as to what they would like to see on our website. Feedback so far has indicated that GATEWAY courses be available to view, a quiz to help direct students, and a few other innovative features. We intend this to be an ongoing project as our first semester was dedicated to the planning and basic set up of our website.

Scary Stories On line

Rhys McArthur-Tomes and Jace Kawharu

We have always been fascinated with horror stories. We were inspired by the audio horror story community on YouTube. We have created our own, using the popular creepypasta "Psychosis." Despite having to learn to use the software and recording equipment (we recorded 20 mins of audio with the mic off) we have four completed episodes! Our proudest moment was when our friends listened to our first completed episode and had only praise for it.

My Keratoconus
Yeshia Govender

My Keratoconus is a website I've created which allows people who have Keratoconus to share their experiences of the condition. It also provides useful information about Keratoconus. Keratoconus is a rare eye condition, with only 1 in every 2000 people being diagnosed with it. My website aims to support those with the condition and assist medical specialists in understanding the emotional effects this condition has on people's lives therefore enhancing the quality of care they provide. I was inspired to use Keratoconus as a topic for my Impact Project from my own experiences. I found the internet had a lot of information about the medical side of Keratoconus, but hardly any information about the emotional effects. During my project, I was assisted by two medical specialist who treat Keratoconus. I was also invited to the University of Auckland to attend their contact lense fitting workshop, assigned specially for Keratoconus patients. This experience was a great learning opportunity for me and it fed into my interest in becoming an optometrist. This project has given me a great insight into the latest developments in the treatment of Keratoconus. I hope that as optometrist of the future,I will be able to make a valuable contribution to assist those who have Keratoconus and help them cope better with the condition.

Motobros

Carlos Stokes, Aiden Cutten and Cam Knight

Our Impact Project involved restoring a mini chopper bike from used motorbike parts we sourced locally. Throughout our project we had to work together to ensure that we were able to meet deadlines and piece together this bike within one Impact Project semester. One of the main obstacles that we had to overcome was being able to rely on each other to complete tasks and organise our time effectively so that we were able to make the most of our working hours in workshops around Albany. Ultimately our project was successful through adapting how we worked together and being more proactive in the way we planned and operated on Wednesdays. The finished product was our first project here at ASHS and we have learned many skills that we can apply to future projects and our learning here at ASHS.

For Karaka and Rewarewa:

ASHS Student Help Portal

Leo Shum

For my Impact Project, I am making a help portal for new students and current existing students. The reason I decided on this project is because I believe there is a need for a website to help students navigate their way around the school. During my time working on my project, I learned some valuable lessons that I will benefit from in the future. When working on my project, I learned how to create a questionnaire that helped me make decisions in my project; it helped me to know what people want out of my site. I also frequently met with Kim and Barbara to ask for feedback. I've learned how to problem solve efficiently as I've run into a few problems that have caused my project to slow down. Without this skill, my website wouldn't be up and running today. One of the interesting things that I've learned about doing this project is how hard it is to make sure that the site is easy to use universally. As I was making my website, I had students try it and surprisingly, what I thought was easy was hard for others. With the feedback from the students, I changed the layout of the site several times but whenever I did more and more people got confused and lost, so there was learning in this too.

Photography Celebrating Diversity

Jess Smith and Britney Clem

Our photography installation was inspired by the intention of showcasing the school's unique diversity. This initial idea was brought to life through our new found skills in both photography and digital design. We decided to do this project as we felt that diversity is not only an important aspect of today's society but is an important aspect of our school community. We felt that it was important to reflect this in our school in a physical way. The outcome of our idea was a sixteen piece photography installation with images processed in black and white of individuals who were strangers to one another. The reason for this was to show that no matter who you are, regardless of appearance, talents, skills or age we are all alike in one way or another but yet still being unique in our own special way.

Small Scale Aquaponics

Angelica Quiat

Aquaponics is a new and different way of growing plants, using a fish tank system instead of the traditional gardening method of soil and fertilisers. However, aquaponics is normally used in a large scale and so I decided to create it on a smaller scale that everyday people would be able to recreate easily, at home. After finishing the project, I reached out to primary schools and did a presentation on my small-scale aquaponics system, showing them why they should make it themselves, and how easy it was to make. I got an awesome response from all the students (even some teachers!), saying that they would do it at home themselves, as they already had pet fishes! Not only did I learn more about the biological and chemical processes within the aquaponics system, but I learned how to engage with others in a way that would encourage them to learn more about science.

Longboards

Toby Wilkinson, Dominic Lawry and Pedro Wilcock

We began by designing the shape of the board, measurements, materials, and what tools we would use. We then ordered wood and began to work in the Hard Materials room. We started from scratch and did everything ourselves with some advice from mentors. Once we had finished our deck, we painted the graphic on the bottom and covered the whole board with clear coat. We sent an email to Amazon Surf and they said they would sponsor us and sent us a box of grip and stickers. We assembled the board to make the finished product. We decided to do this project because we are into skateboarding and wanted to do something related to our interest. The outcome of our project was very successful and we came out with two professionally made longboards. We took lots of learning away to do with wood tech and how to use many different tools to get a nice finish. We engaged with the community by getting a small sponsorship from Amazon, asking advice from professionals and letting students test our boards when we finished. The most interesting thing for people to hear is that we made the boards completely from scratch and did everything ourselves. Our project relates well with the four pillars; quality product, student ownership, participating with the community and substantial learning beyond the classroom.

STart Exhibition

Isabelle Brockie and Kelsey Cornthwaite

The annual ASHS STart Exhibition is an art exhibition for ASHS students with talents in visual art, photography and design to display and sell their artworks. The purpose behind this exhibition was to create a platform for young artists and provide them with the opportunity to display their works and be part of an exhibition that encourages them to be confident with their artistic abilities. It offers students the potential to be involved in an artistic world and opens a pathway for students looking into the creative industries.

Whispers Concept Art

Jessica Sampson

My project was to develop concept art for a fictional game. I came up with a short basic plot for the game which then led to ideas for the artwork. I spent time researching art techniques and finding inspiration in order to produce well thought out artwork. I wanted to do this project because I wanted to go to university for game design and I wanted to learn skills to do with producing high-quality artwork. I also hoped to use this project as part of an entrance portfolio in order to get into university. I have produced 4 pieces of artwork, though originally the plan was to create 8 different pieces, which was ambitious. I have learned about time management and the importance of flexibility. I also learned that time management doesn't just mean managing time it also means not biting off more than you can chew. In order to engage with the community, I got feedback from people outside of the school. I also used my mentor to help me manage my progress and refine my success criteria. The best part of the project is that I discovered that I DON'T want to pursue this as a career. As a Year 13, this is important as I will be leaving school very soon and this has changed my outlook on where I want to go.

Sustainable Self Sufficiency

Madeline Cleveland

My Impact Project, involved undertaking a personal action that contributed to a sustainable future. The project's aims were to address current sustainability issues of food waste, high food miles and excessive food packaging that are overwhelming our landfill. By utilising sustainable design principles and practices such as, a 'cradle to cradle' design methodology, I designed and built an urban farm to establish growing my own food, in particular, mushrooms. My project offers an indoor portable growing garden that uses existing household waste to grow new food sources; thereby offering a healthy, local and affordable source of food, that is self sustaining. By gaining stakeholder feedback and upscaling my design I can begin to contribute to a wider sustainable future for my family and community.

Water Filter

Stella Yung, Angelica Quiat and Oudom Yat

We created a water filtration system this semester that uses rain water as the supply and filters it through a series of stages within our system. This prototype was modelled according to the conditions within the province we chose in the Philippines, called Aurora. We made sure we were using materials which suited the climate, as well as the materials already available in the area. The outcome was a miniature prototype which although does not work, is supposed to represent the model of the system that we could effectively use to showcase our product. However, the most significant outcome of our Impact Project was our learning, as we developed organisational and research skills which allowed us to refine our ideas further so that the system would truly work in a real life setting. We tried to engage with the community through this product as we wanted to reach out to third world countries who do not have easy access to clean water, which is why we really wanted to successfully create this product.

Pollution Website

Leila Murray, Skyler Lester and Dominic Barker-Florian

Our project for this semester was to create awareness of pollution in our waterways by making a website which explains the different types of pollution, the affects on different native species and shows ways that people can take part in protecting our environment for the better of our marine life. We decided to do this project because we were all interested in learning about how the different types of pollution, such as plastic and chemical pollution, affect our New Zealand marine wildlife. We were also interested in the photography aspect, as this project allowed us to explore different camera techniques. The outcome of our project was our WIX website. We engaged with the community as we contacted outside experts such as people from the Auckland Zoo and other researchers, who were able to help us understand the effects of pollution on certain NZ mammals.

Making Music with a Cure

Nana Aborampah-Mensah

For my Impact Project this year, I have decided to mix my passions of music and health together. After being inspired by watching the film "Alive Inside - a Story of Music and Memory", I began researching brain and memory loss diseases and effects, and how music therapy can assist. The fast growing size of the dementia problem needs an urgent response and I feel that my Impact Project can help with the cause! I have re-arranged common songs such as "If I ain't got you" and "Sunday Morning" into older vintage genres. These remakes were recorded live at ASHS during the school holidays and are currently being mixed at SAE Institute of NZ in Parnell. I have liaised with Jane Austin and Jody Bowman (Communications Advisor and Fundraising Consultant) at Alzheimer's NZ. The goal from here is to complete the album "Nostalgia" and donate it to Alzheimers NZ to raise awareness about dementia and its effects. Dementia is likely to be a big problem in the New Zealand community in the future with an expected 170,000 Kiwis likely to be living with dementia by 2050, and the total cost for dementia care to reach over \$5 billion by that time! The journey has been a long process, and I've learned many producing skills in the process such as mixing, mastering, recording, planning, arranging, managing and more. I will be putting the songs on YouTube and iTunes hopefully so stay tuned!

Why Care? - Waicare

Emilly Liang, Se Yeon Han, Anamitra Nair and Audry Yu

"A nation that destroys its soils, destroys itself" - Franklin D. Roosevelt.

Our Impact Project 'Why Care?' has been working to raise awareness of the importance of healthy streams. This involved testing Lucas Creek using the WaiCare kit with Kristin Middle School students. As a result, we learned lots about our local stream, and the students have gone on to continue their own environmentally driven projects. To continue this, our aim was to carry this on to the ASHS community. Our goal is for ASHS to become an EnviroSchool. The aim of the EnviroSchool programme is to foster a generation of people who instinctively think and act sustainably. We want to create an environment - for the school and outside of it - that will last. Becoming an EnviroSchool will open new opportunities and networks in the Upper Harbour region. We decided to take up this project because all four of us are extremely passionate about sustainability and working towards an environmentally friendly future. This is only one way a student-driven project can make a difference. By making ASHS an EnviroSchool, we want to empower more students to account for sustainability with their projects.

Tūmanako – Artworks for Peace Exhibition

Kelsey Cornthwaite and Sunny Lee

Tūmanako! Children's Art Works for Peace is an art exhibition commemorating the 72nd anniversary of the Hiroshima and Nagasaki nuclear attack to inspire hope and action to a nuclear free and peaceful world. Through this project, we wanted to educate the public, especially the youth, on the history and the effects of nuclear weapons and the importance of attaining a peaceful world and how we can help to work towards this goal. This event has been held in Wellington for the past 3 years and we had the opportunity to make it happen in Auckland for the very first time. For the exhibition we invited children aged 8-15 years old all over Auckland to create artworks sharing their vision and aspirations for a peaceful world. Having the Auckland regional directors and the Oceania director of the peace organisation SGI NZ (who were the founders of this event) as our external stakeholders, we worked alongside the Peace Foundation, UNANZ, UNESCO, Commonwealth Youth NZ, AUT and Council Libraries in pursuing our project. Achieving our success criteria, we were able to attain incredible outcomes by having the grand opening ceremony of the exhibition at the AUT City Campus, where 190 artworks were exhibited with the contribution of 250 children across 45 schools in Auckland. With over 300 attendees, it was a truly remarkable achievement. Moreover, with another successful opening at our second venue, Takapuna Library, our exhibition was showcased in AUT, Takapuna Library and the SGI Culture Centre for the whole of August! We could not have been more proud to have made an impact on a cause that we both felt so passionate about. Through this project not only were we empowered by our capabilities to make an impact on our community, we gained valuable experiences and skills such as persistence, optimism, hard work, time management and event management skills which we would not have been able to learn anywhere else.

Journey to Happiness

Ciara Robinson Huggins, Kinta Ramsey and Pearl McClintock

Journey to Happiness is a documentary series about finding, giving, and the science behind happiness. I decided to start this project with my friend Kinta and then later have Pearl join to help find confidence and help others find happiness. Our initial aim was to have 6 videos by the end of the two semesters but with the time and planning that has to go into filming and editing the videos we currently have 3. We learned a lot from this project, from how to connect with people on an emotional level, to building deeper connections with people through learning about the mind. We have become more confident people because of this. Our engagement with the community through this project has been through talking to experts about what they do and how happiness impacts them. We also went around the school asking people what made them happy for a video. The most interesting thing about Journey to Happiness is the science behind how happiness works. The newest video is about the emotions that contribute to happiness and how they affect people.

Cleaning up Paremoremo

Jessica Jones

Rubbish and litter is becoming more frequent on our roadsides in New Zealand. In America they have a corporation called 'Adopt A Highway.' This allows businesses and community groups to clean up sections of the roadsides in America, keeping them free of rubbish. I decided to apply this idea into the community in which I live. I thought this idea was original - especially to Paremoremo! I have organised a community clean up day in mid September where the Paremoremo community can work together to try to clean up our roadsides as best as possible. I have also designed some signs to go up in various places in the community reminding people to keep our roadsides clean. With this I have also found sponsorship from local Paremoremo businesses and companies so that I am able to get funding for the signs. I think that this has been a great learning experience so far!

Street 16

Sharon Jang, Sam Lee, Kaitlin Lee and Jamie Shaw

Street Sixteen is a unisex streetwear clothing brand which we launched in 2016 as part of the YES Lion Foundation Young Enterprise competition. Our line consists of hoodies, crewneck sweatshirts, t-shirts and long sleeve t-shirts and we have been selling our products on our website. We value the dignity and justice of workers all around the world which is why we only sell sweatshop free clothing. We want to create awareness about illegal sweatshops and give our customers the pride of wearing socially sustainable clothing. We have had great success as we won the Regional Innovative Marketing Award in 2016 as well as making it into Dragon's Den finals for two consecutive years. This year we have created our own charity line called ONESIXFOUNDATION. Through this, we have been working with Sisters United to create their charity merchandise. Sisters United is a charity based in South Auckland launched by the Goebel sisters which empower teens by helping them gain confidence through performing arts workshops. Our mission is to help teens get more involved in making a change to society whilst becoming the ultimate destination for the latest streetwear clothing.

Kaipatiki Project

Zena Zeigler, Carly Hanna and Oren Cranna-Powell

We formed a group based on our passion for the environment, wanting to venture out in to the community and to learn more about ecology and sustainability. We made contact with the Kaipatiki Local Board who arranged for us to volunteer at the Hobsonville Plant Nursery every Wednesday from 9am-12pm. With a group of other volunteers, we helped plant, weed, trim, and care for native plants grown at the nursery, which we then planted in community gardens including the Hobsonville Point walkway. This was a great opportunity to learn from experts at the nursery, meet other like minded people in the community and hopefully inspire others to care for the environment. As this was our final project at ASHS, we also spent the afternoons giving back to the school and using our experience to plant daffodils in preparation for Daffodil Day. What we will value most out of this project is our connection with the Kaipatiki Project and our new found knowledge around native plants.

Special Olympic Trainers

Taie Karma, Nana Aborampa-Mensah, Holly Amor and Jenna Prevett

For this project, the four of us spent our Wednesdays coaching the Special Olympics students at our school. We mentored and trained them in sports such as football, ten pin bowling, basketball and golf. It's been an awesome experience for us, first of all we didn't even know each other before this project and second of all we've all learned so much about ourselves, how to deal with different people's needs effectively and how to relate to people with very different personalities. For the practical side, we set up gear, went through drills and tactics, but most of all just had a blast. On Wednesday 21 June, our team - "The Albany Alligators" competed at the Northern Football Federation's Special School's Tournament and won the event. Watching the team compete live, showing their enthusiasm and passion for each other was an amazing sight. It will be sad to leave the team at the end of the year, but it will be sweet to know that we've made a difference in the lives of students who may not always get all the sporting attention.

Nexus Productions

Colin Babbott and Shale Bowater-Tree

Our project started off with the intention of getting one of us to develop a portfolio to get an internship in video production and the other to get film-making experience. The outcome has blown us away as we are both now producing videos for clients to promote their business as well as to promote them on social media. We have completed videos for Body Science, The Chiefs, and other social media brands. The learning we have done has allowed us to work more fully in the industry than expected. We have also taken this beyond school to have formed our own production company which is competing favourably with other companies around Auckland, especially on the North Shore. Our only challenge is in balancing our workload due to the current success of the business!

Creating an EP

Daniel Webb

My project was to create an EP. It involved remixing music and creating new lyrics. Although some of the lyrics are explicit, it is an expression of youth music and culture as it focuses on issues that confront us. Through the project I have used new programs to allow me to better sample the vocals and have tried to produce songs with more diversity than the originals, for example by adding another artist over parts of the existing song.

Mixed Artworks

Elena Sala

The purpose behind my Impact Project is art therapy. I used my art as a coping mechanism. I find it the best way for me personally, to communicate and convey my feelings and thoughts. Multiple types of media have been used on my installation, which range from sculpting, oil on canvas (painting), and writing. It has been heaps of fun working with Martin (head of the workshop) and Tim (tutor teacher) and with their help, seeing my Impact Project come to life. I was also able to mix my love of poetry and art in this project.

Street Photography

Mitchell Bogun, Blake Hansen and Oliver Tobin

Our project was to produce street photography. This involved taking photos in Auckland city to produce a photo book. We wanted to do this project because we all have a passion for photography and wanted to progress our skills further. The first photo book is complete and shows a range of shots and techniques, but it is how we worked together well that was significant learning for us. We all knew each other but were able to progress the project through to production of the product through developing the ability to collaborate.

Motion Sensor Claw

Connor Shaw

My project was creating a robotic claw that can be controlled by the motion of the user's hand. I have a passion for engineering and wanted some experience with robotics and electronics to see what type of engineering I want to study. Also I find the idea of prosthetic limbs and increasing the ability of these limbs through prosthetics very interesting. I have finished building the claw and circuits and am finishing off the coding for the claw now. I have never worked with electronics or robotics and have little experience with coding so I have learned a lot of skills in this area, I also had to work on my sewing skills to construct the control glove. I talked to engineering students at Massey University to get help with the best way to make my claw and circuit, i.e. should I make my own claw or order one online and adapt it. If the project has all its coding finished by the excellence evening it will be able to grip and pick up objects purely by the instructions being sent to it by the movement of the person's hand.

Make Up Through the Ages

Issy Sanders, Shenara Button, Mel Leach and Madie Liebenburg

Our project was a photo book that gives information about make up through the ages. It goes through a few different eras showing who wore make up and why they wore it, as well as how it showed their status. We also researched how they made it, what it was made of and the different components. In the photo book a picture of the actual make up in that era is shown along with a picture of our own interpretation. The research was the most interesting part of the project as we did not realise the extent of the materials that were used.

For GATEWAY:

Hobsonville Point School

Ellie Lawrence-King

Working as a Teacher Aide at Hobsonville Point School was a fantastic experience for me. I learned some of the techniques to support children's learning. I found it really rewarding to get a positive response from the kids I worked with. I came up with creative ways to help make learning fun and engaging. I worked with four boys aged 7-8 who didn't find it easy to focus in class. I found a way of working with them that helped them enjoy reading. I also worked with a small group of boys and girls who struggled with spelling. I used a whiteboard with them, helping them check their spelling as they worked, so that their work was accurate when they took it for marking. A small group of boys also heard I am a hip hop dancer and asked me to help them with a dance they were doing. It was great to know that the kids and teachers I worked with appreciated my help.

Ellie's supervising teacher said, "Ellie has a passion for teaching, but is also 'a natural' with children and their learning environment. We have had graduates and Beginning Teachers and she would be the same as any of them. She is an absolute pleasure to have and has offered and provided so much already to the classroom, teaching and the school."

Chester Consultants Ltd

Rosie and Jaks Betz

Rosie: *I have really enjoyed my GATEWAY placement at Chester Consultants. Most of my goals that I had wanted to achieve were met. At the end of my placement, I had a better understanding of civil engineering. My placement helped continue my interest towards a structural civil engineering degree. The different skills that I learned and the different situations I had were great for building experience. So truly it was a great experience.*

Jaks: *Through GATEWAY, I gained a great insight into what structural engineering is as a career. I went to different sites with a variety of engineers. I learned that structural engineering consists of more than just the design of the structure but also the analysis of the structure. I improved my time management skills. I got to meet different engineers which solidified my choice of structural engineering as a career. I will continue with my career choice and I encourage other students to do GATEWAY.*

Having twin girls both interested in the same field of engineering was something new for their employer who commented, "The girls have been solid and have asked plenty of worthwhile questions. They have been exposed to a variety of engineering work i.e. Soil, structural, flood & fire. It was a pleasure to host both Rosie and Jaks as we need to encourage more students (especially young women) into engineering."

Trelise Cooper
Cora Summerfield

GATEWAY allowed me to explore more about my chosen career path, by getting invited to work as an intern at Trelise Cooper. I was not only able to get my foot in the door of a competitive area, I was able to learn, and build relationships with the people who I want to be in 5 years. What I did at Trelise Cooper was small, it was things like pinning clothes or packing orders, however it did help me figure out what direction of Fashion I wanted to go into because I got to observe, this also helped clear my stereotypical ideas of the Fashion industry. I also got to experience New Zealand's 2017 Fashion Week by working behind the scenes of Kathryn Victoria, a designer who interned with Trelise Cooper for 5 years. This reassured me, that my dream can happen as it's happened to someone just like me before. I learned that I'm always going to have to start small and as someone who just helps out, before growing and becoming the person who other people want to work for.

Cora's supervisor has commented, "Cora has worked very well in a variety of departments, mainly pinning & placing garments, but also some online work. I have also shared and spoken of her interest/passion for the industry. We are delighted to have Cora assisting at Fashion Week this year and have the confidence in her to uphold our high standards."

Mairangi Bay Arts Centre
Ella Ferguson

Throughout my GATEWAY experience at Mairangi Bay Art Centre I have come to see art in a new and professional context. When working at the art centre I was given the opportunity to help organise and set up the Artrageous exhibition. This was a great experience for me to see the background work that goes into making exhibitions happen. I found working as a team in the art centre environment, a positive and friendly experience. Going through GATEWAY has opened me up to the professional world of art and enabled me to see new possibilities and career paths I could follow in the future.

Ella's employer has been most impressed with Ella. Their feedback was "Thank you for sending Ella to us! She has been absolutely wonderful, a great help! She has been involved in setting up exhibitions including the Artrageous Secondary School Exhibition, catalogue production, merchandising & administration. Throughout, she has been very supportive of staff and engaging and helpful with clients/customers."

Lake Road Barbers
Ellie Thomson

For GATEWAY, my placement was at Lake Road Barbers in Takapuna. Throughout my time there I only expected to sweep floors clean dishes and merely observe the Barbers with clients and with cutting and styling hair. I did so much more than that, and I learned so much more than I ever expected to. I was able to cut one of my instructors hair with the help and guidance of my other instructor. I learned so many barbering skills and techniques but I also learned a lot about the industry and the business side of being a barber. Overall this GATEWAY experience was more than I could have hoped for and I have taken away a great experience that will help me in my future endeavours in the barbering industry.

Ellie's employer commented, "We were very happy having Ellie in the barbershop. Ellie was happy and enjoyed her placement. She has shown a clear interest in the industry and will do well when she begins her training."

“Education is the kindling of a flame, not the filling of a vessel.”
– Socrates

To our community

From all of us at Albany Senior High School, we would like to take this opportunity to sincerely thank you all; our experts, stakeholders and businesses for the important part you have played in our students’ success. Our students’ learning has been richer and deeper because of your willingness to be involved. You have generously given us your time, insights and knowledge. This has helped grow our students’ unique gifts and talents in a way that allows them to be connected to our community and make a difference in the world.

Thank you, again, for the part that you have played in allowing this to happen.

“No one is born a good citizen; no nation is born a democracy. Rather, both are processes that continue to evolve over a lifetime. Young people must be included from birth. A society that cuts off from its youth severs its lifeline.”
Kofi Annan

Excellence Evening Displays

In 3A Totara

You will find Totara and Kauri displays – Nathan Garton

In 3B Kauri

You will find Karaka and Rewarewa displays – Toni Shaw

In 4A Kahikatea

You will find Miro and Kahikatea displays – Rachael Ouwejan

In 4B Miro

You will find Tanekaha and Puriri displays – Andrew Kingston

