

MELVILLE MATTERS 86

SEPTEMBER 2019



MELVILLE
SENIOR HIGH SCHOOL



Photo by Ms Kylee Coonan of Act-Belong-Commit Week celebrations



Confident Innovative Successful

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School**



Mentally Healthy School

FROM THE PRINCIPAL

As Term 3 draws to a rapid end, it is important to note the school year, and indeed 12 years of primary and high school education, is drawing to a close for our class of 2019. Completing 12 years of formal education is a cause for celebration for students, their parents and the whole school community. It is also a time when many students face their final ATAR exams, which can be a very stressful period for all concerned. It is important therefore to have some perspective around these exams and to remember that there are now many pathways into university education besides the one gained by exams. This is not to say that students shouldn't continue to study and work hard in preparation for the exams, because they should! It is never too late to pick up that extra mark or two by studying right up to the day of the exam. It is also worth remembering that a good ATAR score will ensure direct entry into university which for many is the easiest way to get into their desired course.

If a student falls short of the ATAR score they need, all universities now provide alternative entry pathways, so all is not necessarily lost on the basis of one bad day. If you remember nothing else from this article, please note that Mr Tills is available over the Christmas holiday period if you need advice on alternative university entrance.

On behalf of the entire Melville community of staff, parents and students I would like to wish our Class of 2019 all the best in their coming exams and remind them that we are here to assist them through this demanding time, whilst also wishing the best to those who are completing their secondary schooling at the end of this term. I will say this again at your graduation - but you are a great group and I have enjoyed our time together.

Finally, in what has been a very busy term, with too many highlights to list in this column, I would once again like to thank the staff at Melville SHS for their ongoing commitment to ensuring that we provide a better than world class education to our students - your children. The staff at Melville really do go above and beyond to provide great opportunities for your students.

Kind Regards,
Phillip White AM, RFD, BA Grad Dip Ed, M Ed (Man), psc
Principal



STEM

Melville SHS has been encouraging students in Science, Technology, Engineering and Maths (STEM) for many years and the school recently entered the STEM School of the Year competition. The results have not been announced, but parents may like to read a summary of the examples of our activities in this article.

Important to school STEM initiatives is having a vision and a whole-school approach. This is occurring with a leadership team who instigate interrelated decisions and included these in the Business Plan. Funding has been prioritised in many areas, particularly to facilitate an increase in bandwidth and access Broadband. This enables STEM activities to run smoothly and facilitated a relatively successful NAPLAN online. The Plan also includes initiatives for staff, students and parents to effectively use identified ICT strategies and tools to improve learning, communication and reporting.

The leadership team have coordinated all staff to have curriculum, marks and homework on CONNECT so that the iPad becomes the preferred method of teaching for all subjects and has led to an increase in computer literacy for the whole school.

Ms Dee Lewis has been a new appointment in charge of the ICT/Learning Resource Centre and has facilitated many STEM-enriching activities such as:

- Parent ICT/CONNECT workshops to encourage and teach new parents how to use CONNECT and engage and help their children with homework. Nearly all parents are now actively on CONNECT
- Initiatives to improve internet speed and connectivity
- New Adobe licensing for the school, which is industry standard software to support our GDM and Arts programs.
- Dee Lewis has won a 2019 Science Innovation Grant for a Makerspace Club where students are encouraged to experiment, explore and share tools, materials, knowledge and expertise in a collaborative, cross-disciplinary space. The club meets at lunch times once a week and is open to all students.
- An ICT Committee that meets each term made up of the IT team and Learning Area teacher representatives. They discuss IT opportunities and feedback on how IT is working in each learning area.
- Dee has facilitated a Minecraft class to primary and high school teachers that are a part of the Riverside Network.
- Year 7 and 8 Gifted and Talented students were given an ICT Masterclass in Term 1 to increase digital literacy and development. This included information on how to use digital devices more effectively, an introduction to OneNote and other online tools. This trial masterclass was of great value and will be rolled out to all Year 7s in 2020.

Staff pro-actively encourage female students to be inspired and participate in STEM subjects. Ms Tini Hassan (Digital Technologies) and Ms Beverley Wild (Wood, Metals and Material Design Tech) are in teaching roles often held by men and they lead by example.

Staff have been inducted into latest IT practices through personal PD. On completion, these keen staff have then inducted other staff in the same. For example, three Science staff have completed a Minecraft workshop with SciTech. These staff have now integrated this into different parts of the syllabus. Mr Simon Weatherly, for example, has encouraged his Science classes to master Minecraft to build a world that replicates the digestive tract to link it to Human Biology.

Three local primary school Year 6 classes come to our school one morning a week to be taught Science with the appropriate equipment and Head of Learning in Science, Kim Rosenthal. This allows a head start in Science for local students in readiness for high school.

Arts and Technology

Arts and Technology teachers have STEM as a compulsory section in the course outline for every subject. For example, in Sam Cavallaro's Visual Arts classes for ceramics and sculpture, he introduced Maths into clay projects and students worked out the volume of the shape they were creating. In Jen Antonioli's Art classes the students learned about one-point perspective when drawing, symmetry and the rule of thirds. Staff regularly integrate divergent parts of the STEM curriculum collaboratively. The school has four 3D printers and a laser cutter that are regularly used in many areas of the school including Graphic Design Media, Art, Science and Technology classes. Students in RISE classes have also been given 3D printing lessons.

Enthusiastic Design and Technology staff coordinate an after school group to design a car for the Ev Challenge. The school subsidises the cost of the cars and many hours are spent by the student group after school in the design process and problem solving. The students, from all year groups, need to maximise the gear to weight ratio of the car to make it travel the most laps in a one hour at a race in November at Wudowie. There is mathematics, engineering and they coordinate a total budget.

Music teacher David George has created the Song Lab club. Any interested student can come along at lunch time to encourage original song writing. They have access to the latest software, Mac computers and recording software.

Aviation

Aviation teacher-in-charge and Pilot, Randall Brink, holds a 'Come Fly with Me' class of Year 5 and 6 primary school students who learn about Aviation to encourage them to apply for the course in high school. The class is for an hour each week for 8 weeks. These students come from small primary schools in the southern and eastern corridors of Perth. They do not all become Aviation students but they are inspired by the technology, maths and aerodynamics taught in the program.

Aviation students in Year 10 receive a Drone license after completing a 10-week course. The 10 *DJI Phantom* drones have been purchased by the school for this purpose. Global Drone Solutions gave the initial course in 2018 and now the Aviation teachers continue it each year. The students qualify by passing the Civil Aviation Authority test.

Virgin Airlines talked to Aviation students from Years 7-12 on a career in the airline industry. The speakers included a female pilot to encourage women into the industry. Interested students are encouraged to apply for external TAFE courses and are helped to find pertinent work experience. Course examples include STEM Certificate II in Electronics, Certificate II in Computer Assembly & Repair, Certificate II in Aeroskills, Certificate III in Informational Digital Media and Technology (Networking) and Certificate III in Informational Digital Media and Technology (Cyber Security).

Aviation staff keep up with Alumni from the Aviation community and bring them back to the school to receive real-life technological training. This year, Helicopter pilot from Babcock, Paul Fullerton gave a talk on rotary aerodynamics to Year 12 Aviation students.

Graphic Design Media

Murdoch University have been heavily involved with the Graphic Design Media (GDM) program and all classes Years 7 to 10 have an excursion each year including a Year 8 workshop in advanced post-production editing and *greenscreen* technology.

Graphic Design Media Specialist students have a complete ICT based course and master the Adobe suite, SketchUp, product design and engineering. Sketchup starts in Year 8 as a 3D modelling computer program tool for drawing applications such as architectural, interior design, landscape architecture, civil and mechanical engineering, film and video game design. The GDM students use Sketchup to create 3D models and find design solutions for their architectural plans. Other Art students use Sketchup for their digital collages. *Waycom* tablets are also used in Graphics classes to allow students to draw directly onto a computer surface.



Gifted and Talented

Robotics, Coding and RoboCup have been delivered to the Year 7 to 9 Gifted and Talented students for four years with the help of SciTech incursions and other excursions. Last year the Science staff created a four-year program to ensure the progressive complexity of learning and engagement. The course has *Microbits* and Edison Robots in Year 7, *Inbots* in Year 8 and Lego *Mindstorm* in Year 9. The students will then perform at RoboCup.

Gifted and Talented Year 7s have a series of Creator Kids workshops through an external provider, as an extension course within Science classes. They expand their creativity and reflect on solutions for real world problems. They also gain entrepreneurial skills. This brings Science alive for the students.

HASS

HASS staff and particularly HOLA Tracy Fynmore have started a volunteer Dolphin watch program with the River Guardians. This has morphed into a cross-curricular activity for students run by the Dept of Biodiversity Conservation and Attractions, Curtin University and Murdoch. The students test water quality, count dolphin numbers, learn about the biology of dolphins and the changes in the marine environment caused by climate change.

Maths

Mathematics staff encourage students to explore the subject with fun activities such as the after school competition 'Have Sum Fun' and around 300 students enter the Australian Mathematics Competition. The Maths teams meet at lunch times with their teacher before the Have Sum Fun competition to practice.

VET

Many upper school students at Melville take a non-ATAR pathway and ATAR students also have a wide range of non-ATAR units they add to their studies. Courses that include STEM are very popular and include Applied Information Technology, Certificate II in Engineering Pathways, Design (Technical Graphics), Material Design Technology, Aviation and Graphic Design. This term the Year 11 and 12 Applied Information Technology classes went to the Big Day In hosted by Murdoch University. They listened to speakers from ACF, Microsoft, Adobe and WiseTech. They were inspired by virtual reality and AI technologies.

Vocational Education Manager, George Tills coordinates lunchtime career pathway sessions with groups such as the Apprenticeship Board, Guest speakers and employers. Inspiring visits this year have included Austral Ships to discuss apprenticeships and careers with Years 10-12.

2019 STEM related excursions and incursions include:

- Scitech Robotics and Forensics incursions G&T Years 7&8
- Scitech Excursions for all Year 7-8 Digital Technology classes
- GDM Year 7 Nano House Design workshop - architect Carl Huston
- Year 9 GDM Anatomical sculpture workshop with Will Huntley
- Years 8-11 Makerspace workshops to create merchandise items using laser cutting, 3D printing and sublimation printing.
- Incursion robotics Years 7-9 Gifted and Talented (Four staff members with training)
- GDM Year 10 Experimental textiles and wearable art workshops - Angela Ferolla
- G&T Year 7 Gravity Centre visit
- Have Sum Fun Competition Years 7-10
- National Chemistry Quiz Years 8,10 and 11
- GDM Year 10 Experimental Games Design with Glenn Spoons
- Australian Mathematics Competition ACM Years 7-10
- Creator Kids Year 7 G&T
- GDM Year 8 Advanced post-production editing and greenscreen use with Murdoch University and Qcumber studios
- Microbits and Edison Robots incursion Year 7 - Kristy Ramage G&T
- Mbots Sara Wood Year 8 G&T
- GDM Year 9 Prosthetic Makeup workshop with Klana Jones
- Lego Mindstorm - Sara Wood
- Numero Years 7-10
- Big Science Competition Years 8-10 G&T
- Biology Zoo Days Year 11-12 - Perth Zoo
- Come Fly with me Courses Years 5-6
- Yr 10 G&T Earth Science Olympiad
- Year 10 G&T Physics Incursion and Chemistry Incursion
- ICT Masterclass GDM Years 7-8 Diedre Lewis and Sara Wood
- Year 10 G&T Biology Olympiad
- Year 11 Forensic Face Reconstruction - Kim Rosenthal
- Big Day In - Murdoch University

MATHS

There has been much excitement in the Mathematics Department this term. Maths teachers are so enthusiastic about the work they are doing in their classes. They share ideas on what has worked in their lesson or something they have tried for the first time. One idea is that of EDI - Explicit Direct Instruction. You can see in the photos students using white boards for responses - a great technique for quick recall and engaging all of the students in our classes. We have purchased two more class sets of the boards and look forward to using them more extensively in our classes next term.

Following on from the students doing well in a competition, the Mathematics staff proudly showcased the work they are doing on Literacy in Maths classes. We were all very excited to receive third place for "there is literacy in Maths two"(the Literacy Endeavour Award).

The Mathematics Department have purchased Megabites vouchers to use at the school canteen. Year 7 AEC students Matthew Quinn, Ryan Rijesh, Ryan Chant and Oscar Tholen (pictured top right) are the first four award winners in Ms Rigelsford's class. They earned their awards by showing deeper understanding and complex thought in solutions for a recent test.

We have also recently farewelled a long-standing member of the Mathematics Department, Mr Alister Humphreys. We wish him all the best for the future and thank him for all of his hard work in the past with our students.

Maths staff posters on Literacy in Maths classes



Megabites voucher winners



Maths staff farewell gathering with acting Principal Mr Cook (Centre)



Students using white boards

Australian Mathematics Competition

The results of the Australian Mathematics Competition (AMC) are in, and Melville students performed exceptionally well. Out of the 246 Melville students who competed, Year 7 student Eric Xia was Melville's top performer, earning the "Prize" level award for a score in the top 0.3% of competitors. In addition to recognition for his excellent achievement, Eric's "prize" was an invitation into the Australian Mathematics Olympiad, which is an extremely challenging four hour test that he sat last week.

Our school had six students with High Distinctions (top 3% for lower school or top 5% for upper school) listed below. Additionally, 64 students earned a Distinction (top 20% or 25%), and 87 more earned a Credit (top 55% or 60%). Students will receive their certificates at year assemblies. Congratulations to all of the students who participated and achieved excellent results.

Year 7	Eric (Qixuan) Xia PRIZE	105	Year 10	Samuel Wong High Distinction	81
	Ivy Cu	78		Alexander Gayton	75
	Pabawath Dharmakirti	76		Yolande Pereira	75
Year 8	Anshul Ramola High Distinction	90	Year 11	Marcus Robertson-Wall High Distinction	69
	Dylan Howe	84		Zarin Tasneem	57
	Zoey Tham	83		Ethan Hardy-Atkins	55
Year 9	Sunny Liu High Distinction	84	Year 12	Joshua Hounslow	71
	Alexander Wong High Distinction	82		Jason Song	69
	Arjun Mungekar High Distinction	76		Aster Dale	62



Eric Xia
with Maths
teacher Mr
Allan Aitken

THE ATAR CHALLENGE

Medicine and Dentistry

A group of Year 12 students aspiring to study Medicine and Dentistry recently met with Mr Tills (Vet and Transition Manager) to get advice on how to lodge their Broadway applications. Melville SHS is part of the Broadway program offered by the University of Western Australia. Students wishing to gain an assured place in either Medicine or Dentistry as a Broadway school can be offered an assured place subject to their UCAT score and interview with an ATAR of 96 instead of an ATAR of 99.

Eligible students with an ATAR of 75 to 79.95 receive an adjusted selection rank of 80 which allows them to receive an offer into the Bachelor of Arts, Biomedical Science, Commerce and Science, subject to their TISC application.



HEAD BOY AND HEAD GIRL 2020

In week 7, Mr White, Mr Glazbrook and Ms Daley interviewed a number of our very talented Year 11 students for the position of 2020 Head Girl and Head Boy. Congratulations to Ashleigh McIntyre and Dean Morris who will build on the great work of Luke Kirkby and Alicia Correia as School Captains and leaders of the over 1,400 students at Melville SHS. The selection process was tight and the panel agreed that any of the candidates could easily have won the position, such was the strength of their written application and interview. On behalf of the school, I commend each of the applicants in general for their bravery and commitment in applying for these two key positions.



ENGLISH

Zak's Future Thought is a Winner

Year 10 student Zachary Alpers (pictured right) is one of two senior school students selected to represent WA at the national finals of the Future Problem Solving Challenge: Scenario Writing.

Zak is in the school's Gifted and Talented Program and has many strings to his academic bow as the top Year 10 Gifted and Talented student in Science, HASS and English plus he is in the Aviation Specialist Program.

The competition started with a non-competitive round where Zak was ranked second. He will attend the National Finals awards in Brisbane from the 18th to the 20th of October and five of these winners are offered a place at the International Competition held in the USA in 2020.

The topic of his story was criminal justice and it had to be set at least 20 years into the future. A link to his story is [HERE](#)

OLNA/NAPLAN Literacy Support Team

Year 7s have been participating in a reading program with Ms Verona Wauchope. Reading fluency is the key to success in all curriculum areas. Supporting students to ensure reading fluency is achieved boosts self-esteem and improves learning and progress in all curriculum areas.

Monitoring reading progress gives teachers an insight into students' strengths and gaps in learning and general knowledge. This is vital in catering for students' individual needs when planning tailored learning plans for each student.

Students are really enjoying the reading challenges and sharing stories with each other. The team look forward to continuing the reading program in 2020.

Poetry

Well done to all those staff and students who participated in the Haiku poetry competition. There were many wonderful entries. The judges were impressed by the fantastic student examples of literacy, great Learning Area strategies of literacy and the creative displays of whole school literacy strategies.

The student winner was Year 9 student Liam Wegwermer and the staff winner was Student Services with their 'Movement' Haiku.

Life at M.S.H.S

Confidence is key
Initiative takes us far
Success thereafter
by Liam Wegwermer

Movement

Sometimes relentless
Doing our best together
Start fresh tomorrow
by Student Services



Zak Alpers



Dakoda Woods-Carpio and Annyta McIntosh

Book Week Continued

The last day of Book Week was celebrated with staff and students who dressed as their favourite book character. A lot of effort was made and everyone looked amazing!



HASS

ANZAC Competition

Congratulations to Year 10 student Aaliyah Ebrahim on reaching the State Final of the 2020 Premier's ANZAC Student Tour. The competition asked students to explain the impact of the ANZAC tradition on modern Australia by exploring a selected WA individual, community or group. Her essay was about the nursing fraternity involved in the conflict.

This is a great achievement and Aaliyah will be interviewed in the State Final in October. The interview process will choose 10 students to travel to commemorative events in Darwin and Singapore in 2020.



GRAPHIC DESIGN MEDIA

Incursion from Artist Anne Gee

On Wednesday, September 4 students from the Year 8 Graphic Design Media class took time away from their regular classes to attend a whole-day incursion with artist Anne Gee.

Students spent the day learning the fine art of paper cutting with the aims of learning the skills and processes necessary to create a stunning design. The class has been learning about public art and are working on a project to help beautify Melville SHS by putting forward a proposal for a mural for the school. Anne inspired students with her fabulous artworks and experience of the public art creative process.



Graphic Design Media Screen Production Excursion

In Week 9, the Year 9 Graphic Design Media class went on an excursion to develop their skills in screen production and media editing.

Accompanied by their teacher Mr Sam Cavallaro and the school Chaplain Paul Attwood, the students started their day by getting a taste of university life with a Future-Student presentation at Murdoch University. Students then gained first-hand university experience with a workshop by Screen Production Lecturer John McMullan on using industry standard software, Adobe After Effects.

After lunch, students traveled to *QCumber* to see a working film and video studio in action. Amanda Nella, owner and technician, and parent of students in the GDM program, ran a range of activities for the students. They experienced the movie magic of the *greenscreen* technique with their own celebrity interview, conducted a breaking-news report, advertised products in front of an infinity screen, and worked with microphones and cameras to promote their chosen cause.

Students returned to school brimming with ideas for their class project of music video production. They also gained a greater understanding of the media industry and the university pathways that can lead them to it.



ARTS AND TECHNOLOGIES

Melville Art Awards

In Week 8, Melville SHS entered the artwork of ten talented Year 11 and 12 Visual Arts students in the prestigious Melville Art Awards. This exhibition, held every year, gives both established and emerging artists the opportunity to exhibit their work and expose their talent and creativity. The selected student work showcased a creative mix of approaches and ideas, showing the high skill level of our students and their innovative exploration of the world around them.

Participating students were:

Yr 11 General Visual Arts Students - Li Mei McGready and Iiyala Staples-Smith

Yr12 General Visual Arts Students - Lucas Cinquina, Riley Coldwell, James Everitt, Rodelle Navarro and Sean Restar

Yr12 ATAR - Ruchida Saenmuang, Rachel Pham and Jessica Lie

The exhibition runs until September 22 at the Melville Civic Centre.



ACT-BELONG-COMMIT HEALTH WEEK FESTIVITIES



Health Classes Leaders

Health and Physical Education (HPE) staff excelled themselves when they facilitated Health Week using four Year 11 and 12 Health classes in Week 7. To execute a seamless week of fun requires more organisation than you could imagine. For many of these students the event is a culmination of experience after participating in activities since lower school and they look forward to running something when they get to Year 12.

Photos below are of the student versus teacher netball match, the poster boards from Health classes and students gathering around the Aromatherapy marquee to make essential oil roller balls to help with exam stress. Continued on the next page.





Mentally Healthy School

The staff support them to create their own vision of what Act-Belong-Commit looks like at Melville as they brainstorm, research and plan all the activities. They focus on students being physically active, creating connections, completing random acts of kindness or committing to a cause. These activities help create positive mental health and well-being, which is often at the core of HPE. Students also develop leadership skills and give back to their school community. Activities included staff versus student lunchtime games of big ball soccer and netball, poster boards, floorball, volleyball, *Staff Survivor* with Soa Palelei (a mix of mind and body challenges in teams), a cultural dance performance, student rock band performance, hair braiding and everyone was encouraged to wear their favourite team shirt on the Friday.

Learning Resource Centre

Exciting events have been happening in the Learning Resource Centre! In weeks 6 and 7, students participated in our inaugural *Yu Gi Oh* trading card tournament. There were some toughly battled duels with our Champion Dylan Chua-Limargana beating Harry Albrecht in a closely played final round. Thanks to Tom Olsen for suggesting this great activity!

Students were able to 'exercise their brains and their bodies' as part of Act-Belong-Commit Week with the Learning Resource Centre *Books on Bikes* promotion. Students kept track of the minutes they rode while reading a book. Congratulations and canteen vouchers were awarded to those who rode the most:

Blade Trad	96 minutes
Jack Adrian	80 minutes
Taige Sullivan	66 minutes

Our Book Week celebrations wrapped up with judging of the Super Reading Quiz. All Years 7 and 8 Reading classes had the opportunity to participate. Year 7 student Noah Strongman won a signed copy of the book 'Once' by Morris Gleitzman and Year 8 student Ethan Schoenmaekers won a canteen voucher.

Student Services Coordinate R U OK Day?

In Week 9, the school again promoted R U OK? Day by wearing bright yellow T shirts and encouraged both staff and students to check in with each other and have meaningful conversations to make sure they are OK.

R U OK? Day is a national day of action for suicide prevention and a reminder to *Trust the Signs, Trust your Gut & Ask R U OK? any day it's needed.*



Yu Gi Oh winners



Books on Bikes



Ms Belotti with Noah Strongman



R U OK? team

NAIDOC

In Week 8, Melville Senior High School celebrated Act-Belong-Commit and NAIDOC (National Aborigines and Islanders Day Observance Committee). Students planned and ran numerous activities during the day to celebrate Aboriginal culture including damper making, face painting and rock painting. Boorloo Aboriginal Cultural Experience ran sessions for selected classes throughout the day, where students had the opportunity to learn about local Noongar songs and dance, didgeridoos, artefacts, storytelling, seasons, local Noongar language. Students screen printed and decorated T shirts to wear for the day showing the NAIDOC 2019 theme.

Photos below: NAIDOC and Act-Belong-Commit Celebrations

