



PRINCIPAL NEWS

Steven So
Principal

REMOTE LEARNING 2.0

The school's leadership team learned a lot from our 2020 remote learning experiences that helped shape our plans for a return to remote learning in Term 3 this year.

In particular, we kept our school day to adhere to the regular timetable and structure. With a maximum of four lessons per day and in recognition of the need for our students to maintain healthy sleep patterns, this was adopted from the start for 7-12. So too was our inclusion of a Wellbeing Wednesday in lieu of sport.

Another important lesson we learned from 2020 was the importance of a differentiated approach to communication with our students. By ensuring all classes had a strong Google Classroom presence and with Zoom as our preferred platform for digital teaching/correspondence etc, we have seen significant growth in our teachers' confidence and indeed expertise in these distance education tools.

A preliminary survey of students and parents at the end of the

first week of remote learning indicated some finetuning that was required. These were specifically around students with access to both technological and indeed wellbeing support. A follow up survey two weeks later sought more pointed feedback from the effectiveness of additional remote learning tools, including Zoom and other interactive methods, our teachers were providing.

We have now reached a point where our 2021 remote learning experiences have outlasted those from 2020 and our commitment to maintaining our expectations of every member of our teaching and learning community remain high. We are equally committed to continuing to learn from our students and more pointed feedback from them in recent days has suggested some more finetuning, especially for our junior students, is now required around the volume and variety of work.

While we cannot and should not expect perfection from our staff and students in these challenging times, we are very conscious about getting the balance right. Data that we have collated and

analysed throughout the term, including that from our parents, shows that the interactions with each student, often via Zoom, is very helpful. So too, our efforts to timely report teacher concerns of student disengagement or otherwise. This will continue for as long as we are in this situation and I would like to thank the parent body for your ongoing support and feedback.

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YEAR 12 This year's Year 12 cohort have now experienced remote learning across two periods of lockdown. I would like to commend them on their positive mindset and resilience as they work towards the completion of their trials and respective courses. I am very proud of the fact that they are relentless in working towards performing to the best of their ability in the HSC examinations. I know they are also supporting their fellow Techies on the HSC journey and I know the cohort will be well rewarded. I encourage students to continue to stay connected to each other, staff and parents and let us know if there is anything extra we can do to support them.

P&C

The recent resignation of Ms Nan Chen meant the election and reshuffling of the P&C executive committee at the meeting last month.

It gives me great pleasure to welcome Dr Matthew Jensen - President, Ms Jocelyn Camara - Vice President and Ms Eleanor Tan - Junior Representative. I look forward to working closely with the dedicated members of the P&C in leading the school community safely through the current outbreak.

SCHOOL REFURBISHMENT

It seems like the perfect time for some handy work to occur on-site while learning is occurring remotely, and apparently it will. The Department has authorised

the Cooler Classroom Project to recommence shortly and tradespersons will operate and adhere to strict safety guidelines. I am hopeful a majority of work will be done allowing the project to be completed in time for summer.

Stay safe all.

**Steven So
Principal**

The Sydney Morning Herald

concerted efforts can be made to increase rates, but also to know where future outbreaks could occur.



People queuing for vaccines in Brighton-Le-Sands, in Sydney's south, on Wednesday. JAMES BRICKWOOD

So good to see some of our students captured by the SMH photographers as they lined up for vaccination on Wednesday 18 August in Brighton Le Sands.



GOVERNMENT HOUSE
SYDNEY

Message from
Her Excellency the Honourable Margaret Beazley AC QC
Governor of New South Wales

Dear Year 12 student,

My name is Margaret Beazley, and as the Governor of New South Wales, one of my roles is to recognise the achievements of the people and communities of our State and to support those whose lives are impacted by unexpected circumstances. I am writing to you on both counts. I am sorry that I cannot write to you individually. However, I did want to make contact to wish you well as you approach the final weeks of your school life, so I trust you will forgive this 'generic' message to all Year 12 students.

I am sure that at the beginning of this year you were thinking that you had been fortunate to be in the Year 12 class of 2021, and not 2020. Last year was so challenging for everyone and particularly so for those sitting the HSC when schooling was online at probably the most critical time for HSC preparation.

Sadly, the new Delta strain of COVID-19 is now impacting on you. It is difficult to know what words of support or wisdom one can convey in the circumstances. However, I take strength from the resilience and achievements of the 2020 HSC students who may be your inspiration as well.

Year 12 is always a challenging year and the young people of Australia have a well-deserved reputation for rising to the challenges that life throws at them. It is that reputation and the excellent outcomes from last year that give me huge faith in you. You are working hard to achieve your personal goals and, as every champion tells us, 99 per cent of achievement is in the preparation.

As you navigate the conditions of the next few weeks, I know you have the support of your teachers and your classmates. I very much hope that those much anticipated final year celebrations will still go ahead, even if they come with some creative adaptations! You deserve the fun, the relief, the personal pride and the ongoing camaraderie that the end of Year 12 signals.

My best wishes for the upcoming few weeks, your HSC and for the next chapter of your life. You can move forward with confidence knowing that you have overcome more than the usual Year 12 challenges. Go well.

Her Excellency the Honourable Margaret Beazley AC QC
Governor of New South Wales

FROM THE DEPUTIES



Kirk Grinham
Deputy Principal



Alison Peachey
Deputy Principal



Aphrodite Cox
Deputy Principal

SRC ELECTIONS

Thank you to all students who nominated to be SRC representatives for their year groups. Elections were run entirely remotely this year and it was so positive to see large numbers of candidates seeking nomination. Congratulations to you all, particularly to our newly elected School Captain, Rian Surti, and Vice Captain, Ali Mourad.

We know you will be excellent leaders and role models for the school.



Rian Surti
2022
Captain



Ali Mourad
2022
Vice Captain

SUBJECT SELECTION

Subject selections for Year 10 moving into Year 11 in 2022 are being finalised. We are currently looking at numbers of students selecting each subject to determine which classes will run and which are not viable.

Subject selection proceedings for Year 8 into Year 9 in 2022 began last week, so too, subject modifications for our Year 11 who commence the HSC courses next term. The class lists for each subject in both of these years will be finalised early in Term 4. Changes may be made during Term 4 only if there is room in the class in which students wish to enter.

YEAR 12 HSC PREPARATION

We are ever mindful of the impact COVID-19 has had on all students, in particular our HSC students. Information is available on the NESA website to clearly answer parents' questions about the HSC exams.

- COVID-19 advice for HSC
- COVID-19 safe exams
- COVID-19 illness or misadventure

The health and wellbeing of HSC students is more important than any exam, which is why we are encouraging students to:

- Stay connected
- Take time out for rest or exercise
- Ask for help

Further information for students is available on the NESA website <https://educationstandards.nsw.edu.au/wps/portal/nesa/covid-19/coronavirus-advice/hsc>

Kirk Grinham
Deputy Principal

Alison Peachey
Deputy Principal

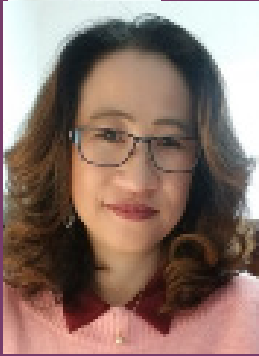
Aphrodite Cox
Deputy Principal



Four Candidates down to Two - Captain and Vice for 2022



On Wednesday 25 August four of our elected senior prefects delivered speeches - one prepared and one off the cuff. From these four students one was elected Captain and one Vice Captain for 2022. Congratulations to all candidates and especially to Rian Surti (Captain for 2022) and Ali Mourad (Vice Captain for 2022).



SSO NEWS

Nan Chen, Student Support Officer (SSO)

Contact Email: tan.chen1@det.nsw.edu.au

Summary:

August was an interesting first month for me at STHS! There was a lot to learn and everybody worked so hard. The challenges were very educational. Working together certainly helped!

General Overview:

This month was a difficult time for many younger Techies due to the loss of transition time caused by the strict lockdown measures in place. Wellbeing cases were due to issues with homework, technical difficulties and staying motivated. Year 12s worked extra hard preparing for their HSC, which was an achievement! Students were encouraged to seek help when they are experiencing any issues. If you don't tell, we won't know! So please communicate with your teachers! We're here to help. Let's all work together!

External Services:

Are you interested in doing something fun? Or do you have a flair for the arts and drama? You might like to check out ShopFront when we go back to school. They're located nearby to STHS, in Carlton.

<https://shopfront.org.au>



If you're interested in discovering useful strategies such as how to check in with yourself, you can try this link at ReachOut, for young people.

<https://reachout.com>



Troubleshooting Guide:

Inundated with emails and notifications? Don't know where is that ZOOM link you got in the mail the other day?

Try these tips:

- Use **filters** in your email.
- Set your **alarm clock** to remind you of task due dates and ZOOM meeting times.
- **Cut and paste** that important ZOOM link into OneNote.
- Use an **organiser** (eg OneNote) to sort all your classes, notes and useful links.

Study Tips:

- Get organized with the **Eisenhower Matrix**.
- Use a monthly planner.
- Chunk your work - try 30mins.
- Use a timer - set goals!
- Have a study buddy.
- Take lots of brain breaks!
- Know your learning style.
- Reward yourself regularly!

Wellbeing Tips:

- Get the right amount of sleep.
- Use your breaks effectively.
- Soak in sunshine (AKA Vitamin D...at least while it lasts).
- Talk to someone - even if it's through multiplayer gaming.
- Cook with a family member (you'll need this skill one day!).
- Practise visual hygiene.

Feedback:

It was great chatting with some students - via phone and email. Hopefully, we can all meet soon! In the meanwhile, try the ME Club for Juniors. The ME Club for Seniors (not retirees) starts in Term 4.

Remember: Feedback is always welcome. Contact your SSO for any help or to give suggestions!

Program Update:



This program, hosted by your SSO and the STHS Wellbeing team, is a social style club with a wellbeing twist. It's an online place, via ZOOM, to meet peers, play games, see people's pets (I have 4 by the way), exchange wellbeing tips/strategies, and have fun!

The **ME** stands for: **M = Mindfulness, E = Empowerment**. It also stands for 'Me, myself and I'. The focus is on self. We'll look at self-awareness, how our brain works (my favourite topic), and what you can do yourself to make your life better! It's a place to connect with your school, local community and your friends. So see you at the ME Club! **The ME Club - Juniors** is from **Week 8, Thu 2/9 at lunchtimes, 1:15-1:45pm**.

lockdown learning history

Year 10 - World History

This term World History studied “The French Revolution” and debated the causes of the revolution, contemplated Louis XVI’s breakfast choices, and wrote letters to the King demanding change for the troubled and exploited Third Estate. We also enjoyed getting confused and excited by the ideas of French philosophers such as Rene Descartes, Voltaire, and Rousseau. Here we are dressed in our berets and moustaches as we debated at what moment the Revolution actually began!!

Chris Cheng
10 World History





Year 8 History throwing their arms in the air on Thursday Period 4 before Feel Good Friday

Making resource packs for Year 12 Modern History and sending them out in a big trolley for the mail.





Year 12 Ancient History students are the lucky last class to have their Trial exam - it had just started. Here is a photo (taken by their teacher - Elle Proops) of them looking very excited and eager before their exam.



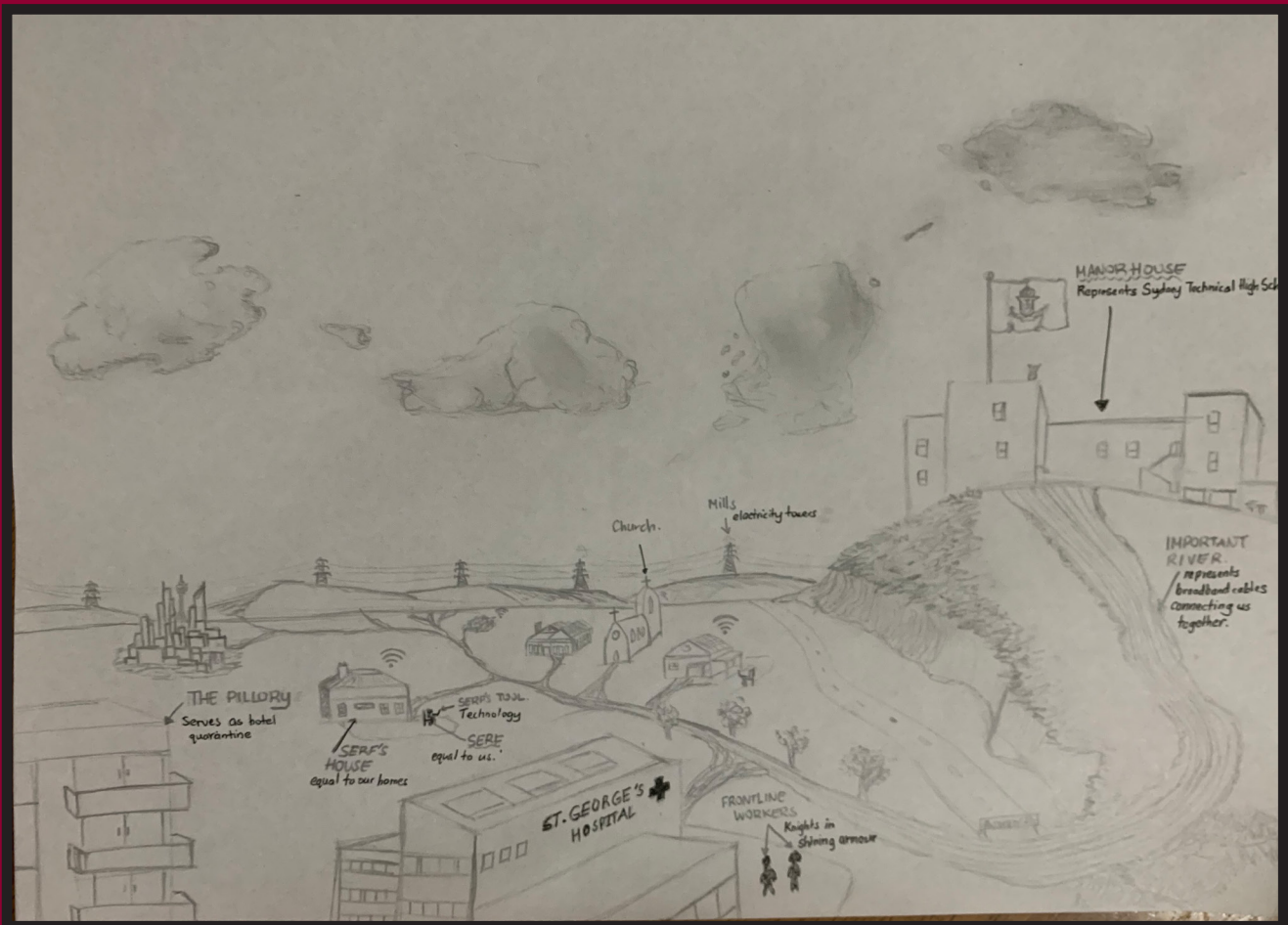
Year 12 posing on Zoom after their online Trial Examination

Year 8 History

This term in remote learning Year 8 History have been learning about Medieval Europe. We've explored the ruler Charlemagne, the Feudal System, and re-imagined what a Medieval Manor would look like in locked-down Sydney. Daniel Ju and Frank Ling reimagined Sydney Tech as a Manor House, internet cables as our important water source, with knights being represented as both hospital workers and internet security programs. Maxwell Lim redesigned the Manor House as a game with built in "problems" that got solved with different "escapes" such as "vaccinations" and "friends in ZOOM classes."

8HistoryH also got to dress as Knights for our discussion of Chivalry and virtually travelled to Castles in Syria, Poland, and England sending post-cards back to our teachers via the Google Classroom.

Daniel Ju and Frank Ling
8 History H



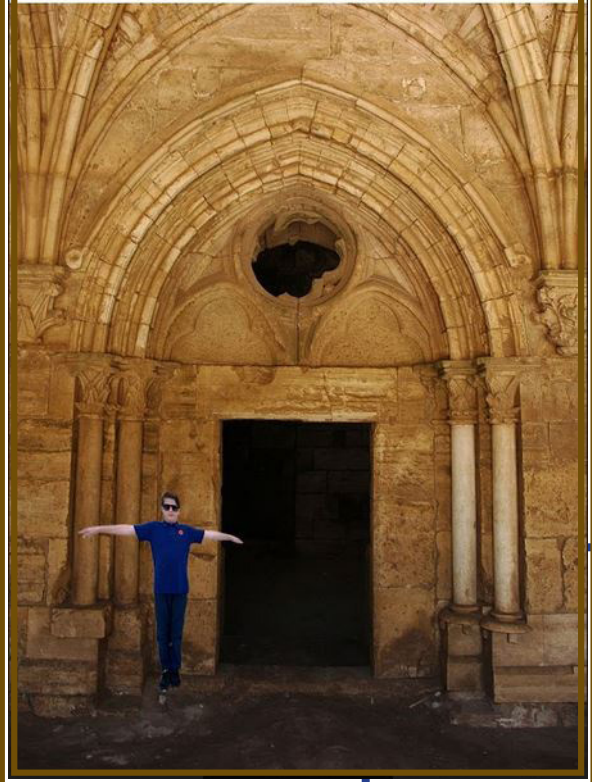
Frank Ling - reimagining Manorialism in Covid

From the Crac des Chevaliers!

lockdown learning history

Year 8 students in History toured a Medieval Castle and then with the aid of photoshop and their design skills they teleported themselves into one of the many medieval castles and created a postcard.

Here are a few of the excellent results.



Rafi Gonano
Travelling to
Medieval Castle
Postcard



24/8/21

Hi Ms Steel,
Today, I went to the Castle of the Teutonic Order in Malbork today. It was so much fun and so fascinating exploring this ancient castle today! The Castle was built in the 13th century after the conquest of old Prussia, for the Teutonic knights to refuge in and strengthen the control of the area after uprisings. Did you know that a Teutonic knight was murdered by a crazy monk in this castle? Malbork Castle is one of my favourite castles because of its enormous size. Now, it has been transformed into a great museum that many people visit. I hope you are doing well.

Regards,
Edward



Edward He -
Castle
Postcard



Edwin Hu -
Castle Postcard



Freddie Liauw - Touring Castles

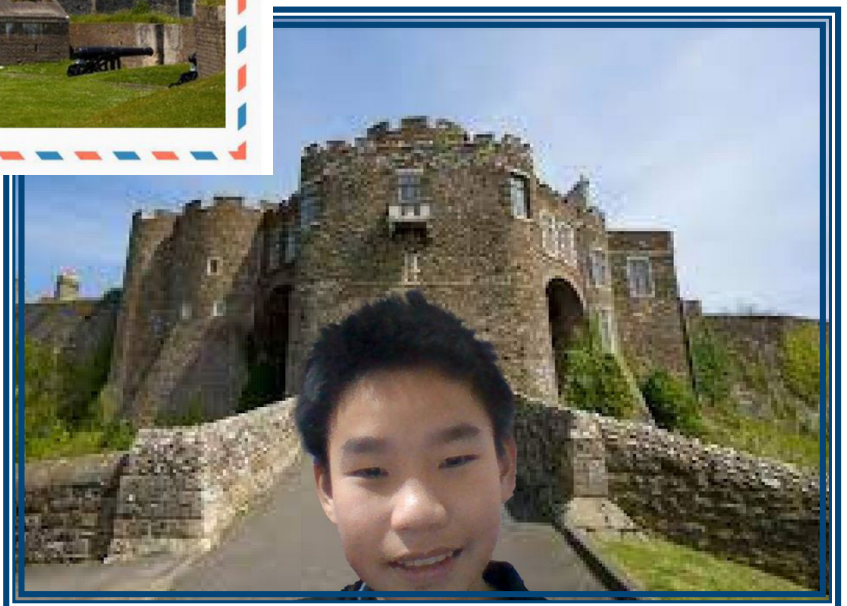
Dover Castle



Sahej Grewel - Castle Postcard



Frank Ling - Dover Castle Tour



Maxwell Lim - Touring Castles

What do we remember about Trig? Year 10M1 first Jam board

sin(theta) + cos(theta) = 90

THERES MORE PAGES

right-angled trigonometry is one way to show the relationships between angles and distances in triangles - Jack

tan^-1, sin^-1, cos^-1 also exist

cos45 = 1/sqrt(2) - zidane

cos45 = 1/root 2

Hypotenuse

Opposite

Adjacent

theta

only right angled triangles

tan theta = opp/hyp - Stefan

sin theta = opp/adjacent - Kalf

tan theta = opposite/adjacent - Kalf

cos theta = adjacent/hypotenuse (Nicholas)

sin 30 = cos 60 = 0.5 CHASSAN

tan 45 = 1 - Chris

True bearing is angle from the direction of north, eg 41°T - Gene

tan theta = gradient - Shen

SOHCAHTOA Conrad

Sin(45) = Root 1/2 Ian

Tejas - The Pythagorean theorem: a^2 + b^2 = c^2

Sin rule: sin A/a = sin B/b = sin C/c (JOSHUA BAE)

tan(90) = undefined - Aqeel

UWU

Bearings - measured from north and clockwise from there. can find distances between two points (e.g point A to point B) in word equations. (sree)

What we know about trig only works with right angled triangles ;0 - Aaryan

tan theta = sin theta / cos theta

Angle of elevation and depression - Surya

tan theta = sin theta / cos theta, mark

tan 60 = root 3 (alexander)

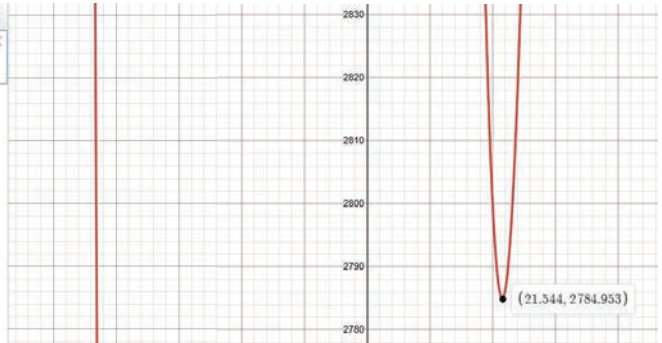
Trig values for 30, 45 and 60 degrees brandon

RIGHT angled triangles.

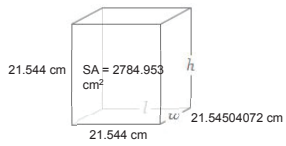
sin(theta) = opposite/hypotenuse - Hanjun

By using a graph and DEMOS, find the dimensions of a square based rectangular prism that holds 10 litres of water, that has the minimum surface area.

Working Out
 Let x be the length and height*
 Let w be the width
 $V = 10L$
 $V = 10000\text{cm}^3$
 $V = x^2w$
 $10000 = x^2w$ (1)
 $w = 10000/x^2$ (2)
 $SA = 2(x^2 + 2xw)$
 $= 2x^2 + 4xw$ (3)
 Substituting (2) into (3)
 $SA = 2x^2 + 4x(10000/x^2)$
 $SA = 2x^2 + (40000/x^2)$
 $SA = 2x^2 + (40000/x)$
 $SA = (2x^3 + 40000)/x$ (4)
 Now, enter the equation into Desmos, (see diagram on right)
 The vertex of the parabola formed is (21.544, 2784.953), meaning that the minimum value for x is 21.544, while the minimum value for y (SA) is 2784.953.
 The reason why the graph on the left is ignored is because dimensions cannot be negative.
 Now that we know x, substitute into (1)
 $10000 = 21.544^2 x w$
 $w = 10000/21.544^2$
 $= 21.54504072$
 Therefore, the dimensions for the rectangular prism are
 length & height = 21.544 cm
 width = 21.54504072 cm



* = X equals both length and height because the rectangular prism is square based, meaning that all sides are equal.



Pictured above is the work from Zidane Zainuddin (10M1) and the great work he did on a home learning task. In this task 10M1 were asked to use their knowledge of Measurement and Desmos and extend their thinking to see how Surface Area and Volume can be linked. This optimisation skill can be used in business beyond the classroom. Well done Zidane.

Jenny Anastas
 Maths Faculty

ARE YOU THINKING OF BUYING YOUR CHILD A SMART TOY, SMART PHONE, TABLET, E-SITE MEMBERSHIP OR SOMETHING ELSE DIGITAL?

Children and teenagers are going online and using social media with increasing frequency. While many enjoy their online experiences, there are risks involved. Parents, schools and the broader community need to work together to help keep children's online experiences safe.

The Commonwealth Office of the Children's eSafety Commissioner has developed a resource for parents – iPARENT – which helps parents deal with the connected devices in their children's lives.

iPARENT – found at <https://esafety.gov.au/education-resources/iparent> - provides facts and statistics about Australian children online, managing technology in the home and strategies that can be used by parents to keep children safe online.

A parent's guide to online safety can be downloaded from this site. A range of other useful information is also available from the website. For example parents can access information about cyberbullying including:

- how to talk to their child about cyberbullying;
- what to do if their child is being cyber bullied or is engaging in cyberbullying behaviour themselves; and
- sources of professional support and help.

The website also provides information about how parents and children can report unwanted online contact and/or inappropriate, offensive or illegal content online.

If you are thinking of buying smart toys, smart phones, tablets, drones, e-gift cards or membership in an e-gaming site may like to check out the e-Safety Commissioner's eSafety Gift Guide at - <https://www.esafety.gov.au/giftguide> - so you can be savvy and secure when you pick out tech gifts.

Finally, if someone you know is adversely affected by an online experience, free and confidential advice, assistance and support is available from:

- the Kids Helpline (ages 5 to 25) on 1800 55 1800; and/or
- eheadspace (ages 12 to 25) on 1800 650 890; and/or
- Lifeline on 13 11 14.

Of course if you need urgent assistance ring 000.



YOUR WELLBEING @ TECH

Mitch Davis
Relieving HT Wellbeing

OUTGOING YEAR 12 ADVISER

As the Year 12 Class of 2022 completes their final weeks of school at Tech, it is important that we recognise and congratulate their Year Adviser for the past four years, Ms Joanne Bilton, on her commitment to the academic and personal development of these students. Ms Bilton has gone above and beyond to support the Year 12 cohort and has recently been instrumental in their successful completion of the Practice HSC Trial Examinations. Ms Bilton has implemented additional Zoom meetings and wellbeing activities on the Year 12 Google Classroom to support students' wellbeing throughout this difficult lockdown.

On behalf of the school community – the many students, staff and parents, I would like to thank you, Joanne, for your hard

work and dedication to the wellbeing of these students. You have assisted the Year 12 cohort to overcome unprecedented challenges as they finish their final years of school. The support you have provided the Year 12 students over the past four years has made a significant impact in students' development and journey throughout their high school years.

I would also like to congratulate our Year 12 students on their resilience and positive approach to the challenges they have faced this year. Their ability to face these challenges has been an inspiration to the rest of the school community. I encourage all our Year 12 students to keep working hard, look after your wellbeing and stay on track in preparation for the HSC exams. The entire school community is very proud of their achievements so far this year.

ACADEMIC ADVISERS

The Year 10 Academic Adviser Interviews were held in Term 3 Week 3.

It is a huge effort organising these interviews and my thanks to all the teachers involved who delivered these interviews virtually.

Ms Steel (YA), Mrs Peachey (DP), Mrs Cox (DP) and Mr Mouzakis (Careers Adviser) all worked exceptionally hard to innovate new ways to deliver these interviews while learning remotely. Year 10 students were provided with advice and all the information they needed to make the correct subject selections for 2022.

ONLINE LEARNING TIPS

1. USE OF CLASS TIME

How well did you use your time in class? Remember to follow your timetable schedule each day. It is important to check Google Classrooms and emails to know what is required for each lesson.

2. ASKING FOR HELP

If you didn't understand something in class, did you ask a question about it? If you were unsure about an assignment or assessment, did you check in with your teacher? If you were struggling with a topic, your teachers are happy to provide support. Remember to send them an email or message via Google Classroom to seek clarification.

3. WELLBEING

Ensure that you are providing yourself the opportunity get enough sleep, and take your recess and lunch breaks. Remember to get involved in the Wellbeing Wednesday activities or engage with a 'brain break' on your Wellbeing Hub. It is extremely important to maintain recommended levels of physical activity and include wellbeing related activities into your weekly planner.

4. SCHOOL-BASED SUPPORT

Remember the many support services we have at Tech. Year Advisers are available if you need additional support with your wellbeing. Year Advisers can assist you with advice and referrals to ensure that you are provided with the support you need in this difficult time. Our new Student Support Officer, Nan Chen, has been working with Year Advisers to provide students with organisational and wellbeing support. Our Counsellor, Jordan Lawlor-Short is available for appointment through Year Adviser referrals. In Term 4, we will also welcome an additional Counsellor, Mrs Nadia Vares.

ASSEMBLIES IN TERM 3

During remote learning, we have adjusted the delivery of Wellbeing activities and assemblies this term. Year Advisers have checked-in with their cohort via ZOOM meetings with the Senior Executive team. Students asked some important questions and were provided the opportunity to interact with each other outside of the classroom environment. Year Advisers hosted year meetings in Week 7 which varied for each year group. Students enjoyed their time to discuss positive wellbeing and engage in various activities provided by their Year Advisers.

Students have also participated in various activities on the Wellbeing Hubs such as trivia, year group playlists, physical activity suggestions and mindfulness activities. Year Advisers have been particularly proud of students' engagement and it is wonderful to see them taking the opportunity to participate in activities that promote positive wellbeing.

Our Senior Exec, SRC and Wellbeing Team have also played a part in delivering virtual assemblies each week that provide the students with informative information and some fun activities to engage with the whole school community.

Mitch Davis
Relieving HT Wellbeing

WEBLINKS

<https://education.nsw.gov.au/teaching-and-learning/learning-from-home/wellbeing>

<https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home>

<https://au.reachout.com/articles/9-tips-for-coping-with-the-hard-stuff#a>

<http://andrewfuller.com.au/free-resources/>

Year 11 lockdown news

Despite spending the entirety of our final term as Year 11 students online, it has been the most jam packed so far as we prepare for our daunting transition to “HSC” students! ZOOM meetings and classes, the Tech Olympics, Wellbeing Wednesday and Feel-Good Friday have all made this term quite unique.

I would say the first BIG SOMETHING for Year 11 was the design and production of our Graduation Jerseys - the first key element of Year 12. The Jersey Committee along with our Year Adviser Ms Steel, for the last month and a bit, have worked closely with the rest

of the cohort to create a jersey that best represents our grade.

Over the course of three weeks, Year 11 were given the opportunity to vote for designs, make suggestions and personalise our jerseys with nicknames! A prototype has now entered production and more details on how to order will

be sent out to all Year 11 students soon so keep an eye out for that over the next week or two. A huge THANK YOU is in order for everyone involved who worked tirelessly on the project behind the scenes, particularly Chuming

Liu who contacted the company so many times for us, as well as every other Year 11 for their cooperation which allowed for the process to run so smoothly.

Following this was the 2022 SRC Elections. After progressing through the numerous stages of applications and rounds of voting, six Prefects and six Senior Prefects were successfully elected. Just



recently, the newly elected SRC members were able to get a taste of what Year 12 leadership is like when they organised the first ever assembly run by the 2022 cohort! The assembly was an astounding success and I am sure everyone is waiting eagerly for their return. Many thanks to Humzah Ghaffar and the Digital Media Team for the production.

Another highlight for the Year 11 SRC members was the Captain speeches. Senior Prefects wanting the title of Captain, proceeded to the next stage of the election and

gave a prepared speech to the whole grade, school executives, Head Teachers and numerous other staff members on ZOOM. Thanks particularly to Ms Chork for organising everything twice,

due to our postponement so that we could get our Pfizer vaccines! (See photo on Page 2.)

An impromptu speech was also held to assess the public speaking capabilities of our future leaders. The question was: How has the pandemic changed your understanding of leadership? All candidates did an amazing job with only 120 short

seconds to respond after receiving the question. Congratulations to our newly elected Captain and Vice-Captain who will lead and represent

not only our cohort but also the entire school community!

On another note, stress has also been a key part of the term due to the uncertainty of the pandemic and/or the endless stream of Google Classroom notifications that have plagued our devices. Fortunately, we have shown our typical ability to adapt and change as a group with much of the stress vanishing after measures such as Wellbeing Wednesday, the cancellation of formal preliminary examinations, and Feel-Good Friday. We are excited for our next whole day Wellbeing Wednesday too!

Although so much has happened already, there are still many more events to look forward to over the next three weeks. Hopefully, many of us will put all those hours, days, weeks, months spent on our screens to good use in the upcoming Interschool Online Gaming Tournament!

Sadly, from next term we will no longer be able to say: “This won’t count towards our HSC!”

Shintaro Seino







P&C CHAT

Matthew Jensen
Vice President

We have had a quiet month at P&C with lockdown curtailing any of our plans. As a result of the August meeting, we had an election to replace the resigning president Nan Chen. I was elected to be the new president which then necessitated an election of a new vice president. Jocelyn Camara is the new vice-president, and Jocelyn's place as the Junior Representative was filled by Eleanor Tan. As a consequence of this shuffling, the P&C committee is now listed below:

President	Dr Matthew Jensen
Vice President	Ms Harsha Yadav
Second Vice President	Ms Jocelyn Camara
Secretary	Ms Janet Kirk
Assistant Secretary	Mr Raj Surti
Treasurer	Mr Alex Troyak
Assistant Treasurer	Mrs Linda Choy
Committee Member for Senior Years	Mr Raj Surti
Committee Member for Junior Years	Ms Eleanor Tan
Relieving Events Coordinator	Mr Minh Ho

Our next meeting is Tuesday 7 September via zoom. At this meeting our special guest presenter will be Mr Mitch Davis, the acting Head Teacher Wellbeing at Tech.

Given the stress and strain that the continued lockdown has had on our boys (and some of us), it will be good to hear from Mitch about how the school (and we) can care for our sons.

We will also be voting on a couple of funding requests so please come along. The zoom details are:

Meeting ID: 883 8150 5513

Passcode: 874427

I hope to see you at our meeting.

Matthew Jensen
P&C President

Upcoming P&C is on Tuesday
7 September 2021 starting at 7:00pm via ZOOM

Meeting ID: 883 8150 5513

Pass code: 874427

Looking forward to seeing you via ZOOM

All parents are welcome.

The first P&C meeting for Term 4 will be on Tuesday 5 October 2021
Parents will be notified with details for this meeting prior to the date.

Geographers not rubbish when it comes to waste

During remote learning, students in Year 9 Geography were pleased to learn that they were below average with regard to 'waste'.

Well below average, in fact.

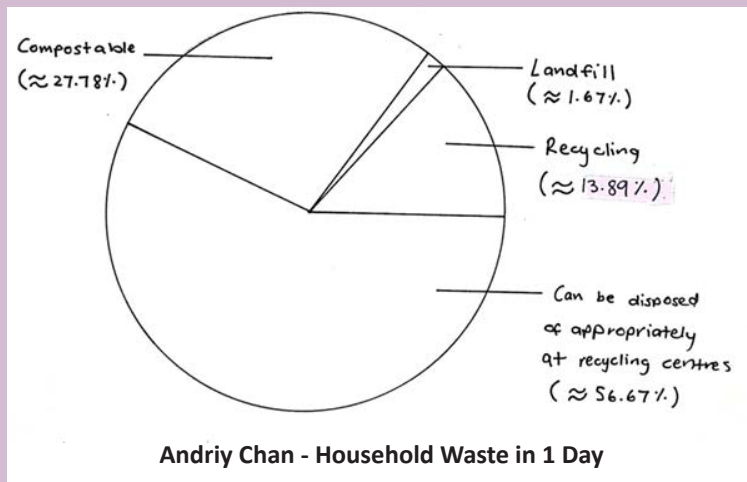
For while the average Australian household creates 2000kg of waste each year, household waste audits conducted by 9GEOB revealed their households only generated 1.58kg of waste per day – or 578kg per year.

Waste audits can be conducted by governments, businesses and households to find out how much, and what type of waste is being generated.

Crucially, waste audits can help people figure out ways they can minimise waste, especially that which goes to landfill.

community composting facilities, particularly for those in apartments.

"Overall, I am able to divert 75% of my household waste from landfill on a daily basis."



Andriy Chan - Household Waste in 1 Day

said Marcus Lara-Camara. "If I had access to a compost bin this would be achievable but due to the lack of one, I am only able to divert 30% of waste."

The students conducted the waste audit as part of their study of the topic "Environmental Change and Management".

The topic requires students to develop an understanding of challenges to environmental sustainability and propose ways individuals can contribute to environmental sustainability. Despite already doing a great job when it comes to controlling waste, there is always more that can be done.

"Packaging and cling wrap can be avoided if we eat more fresh produce instead of canned and ready-to-go foods," Johnson said.

Nathan Brown, and 9GEOB Geography Faculty



Sean Van Ummersen - Household Waste Audit

On average, 28% of a Year 9 student's household waste is reused or recycled.

"I feel like we are doing a good job at the moment because of the recycling that we have been doing," said Johnson Shen, "like using glass jars as containers and putting food scraps like banana peels into the soil for decomposition."

Nevertheless, students identified limitations to reducing the amount of waste going to landfill, such as lack of



Aidan Tang - Household Waste Audit



WORLD OF CAREERS IN LOCKDOWN

Jerry Mouzakis
Relieving Careers Adviser

work - the new order

Covid has not only changed the landscape of work in terms of hybrid workplaces but also the kinds of jobs that will be lost and created as automation, AI and robotics take hold.

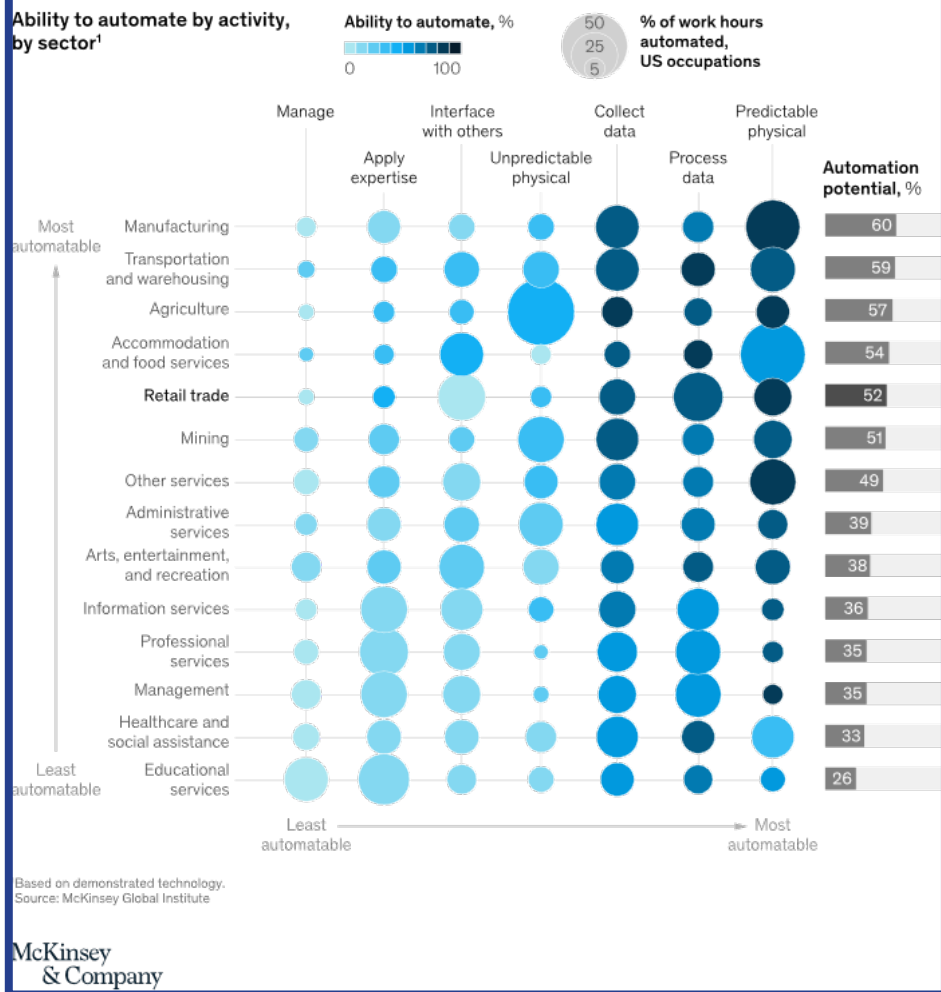
A survey in 2020 conducted by the organization 'Year 13' found that 66% of Australians aged between 15 -24 suffer from anxiety as a result of being stressed about their futures.

To begin with, let us look at the types of jobs that will be lost to automation. To future-proof your career (according to consultants McKinsey & Company) you need to look at careers that will be least affected by automation.

From the table, retail and mining will lose approximately 50 % of their current workforce. So ideally you should choose a career towards the bottom of the table, as this is one least affected by automation.

Anyone interested in AI should also read the work of Kate Crawford.

More than half of the work in retail could be automated.



Cal Newport in his book 'Get so good they can't ignore you: Why skills trump passion in the quest for the work you love' espouses that gaining skills and becoming an expert in something is likely to ignite a passion for a career.

So what are the skills required to survive in the post-Covid world?

According to the report from McKinsey and the World Economic Forum entitled 'These are the skills you will need for the future of work,' there are 56 foundational skills associated with a higher likelihood of employment, higher incomes, and job satisfaction in the future world of work. This is a summary of the report.

These foundational skills are divided into four broad skill categories – cognitive, digital, interpersonal, and self-leadership. These were further subdivided into 13 separate skill groups. These 56 foundational skills were then reclassified as 'distinct elements of talent' -DELTAs.

Further examination found that increased proficiency in DELTAs was linked to education. Overall, survey participants with a tertiary qualification had higher average DELTA proficiency scores than those without a university degree.

The areas that they found no correlation with education were categories such as self-confidence, coping with uncertainty, courage and risk-taking, empathy, and resolving conflicts. These are the areas that our boys need to be encouraged to apply and learn.

Ask your son about the areas they feel proficient in. Look at the areas that they need to improve. Let us take the new order and turn it into their joy division of higher employment attainability.

Jerry Mouzakis
Relieving Careers Adviser

SCHOOL CALENDAR

Terms 3 and 4 - 2021

Due to the current lockdown situation, most events have been cancelled or postponed. Some events may be online so please stay tuned for up to date information via email.

lockdown learning science

To Immortality, Infinity and Beyond with Dr Karl

The first time I heard about Dr Karl was when my mother informed me that the liquid collagen, she was religiously consuming on empty stomach everyday in the morning, was not really firming up her skin. Her realisation was borne after watching a myth-busting video on Tik Tok by Dr Karl. Since that day, she started following him and every few days I would get forwarded videos of Dr Karl from my mother, who truly believes he is the greatest devotee of Ma Saraswati, the Hindu Goddess of Knowledge. (I begged to differ as a man of science Dr Karl would follow logic but was silenced by my mother's statement that at some point all fields of knowledge unite.) On the day of the incursion (random fact - It coincided with my birthday), I sat before my laptop, wondering what made Dr Karl pursue five degrees in STEM subjects: physics, mathematics, biomedical engineering, medicine and surgery. Mostly people would stop at one... two would be extraordinary... but five is definitely for someone who breathes science. Indeed, Dr Karl wears the crown of 'Science Guy' not Bill Nye! Over the hour and half long video, he ignited our imagination, gave us hope and taught us an attitude to live by.

Dr Karl expounded latest developments in the fields of computers, engineering and genetics. He highlighted the leaps made by the scientific community but also constantly reminded his viewers that there are still giant strides to be taken. My imagination ran amok listening to the possibilities that he presented - Immortality is an achievable target if we can modify the 400 cell types in the human body. In 5-20 years time, the local GP will be able to customise vaccines using knowledge of his patient's DNA sequence and the 3-D printer in his clinic. Computers are not just for gaming and storing databases - they can treat patients with Parkinson's and Alzheimer's. Humans can travel to stars through fusion rockets or using the Alcubierre effect so long that we learned to manage its annihilating byproduct shock wave. And yes! It is possible for mankind to live on Mars without space suits.

Dr Karl gave hope even while discussing the enigmas of the modern world. Carbon emissions can be controlled and reduced to zero over a period of 10 to 30 years, depending on how strong the political will is toward implementing the recommendations of The Drawdown Review. He reiterated that the obvious

first step would be to stop sponsoring Exxon and other fossil fuel companies through subsidies. Similarly, Dr Karl assured us that the COVID pandemic can be reversed through vaccination. After all, injections saved millions of chickens, who get inoculated against coronavirus on the day they are born and then on day 14 and 28. So why can't vaccinations save humanity?

He also convinced the prospective scientists to not get disheartened by Australia's brain drain due to liberal government's cutbacks in the field of research. Instead, they need to view the situation like a pendulum, which will swing back. Also, there is a possibility that the government officials could get 'enlightened'

Finally, Dr Karl taught us the attitude to live a fruitful scientific life, "It is not the answer that gets you the Nobel Prize...it is the question".

Apporva Yadav
9B

The Year 9 science students participated in an online excursion for Science Week.

The were involved in a live talk with Dr Karl. This online talk was supported by the Australian Museum and was about Future Careers.

This is the link to the talk, it was great.

<https://youtu.be/TDrIjMSzR8Y>

Barbara Brighton
Science Faculty



Future Careers

- Computers
- Engineering
- Genetics, Biology, DNA
- Basic Science
- Environment / Zero Carbon
- ****Smart**** / Peaceful

A small inset image of Dr Karl Kruszelnicki, showing him from the chest up, wearing his signature colorful shirt and glasses. The Sydney Science Trail logo is visible in the top right corner of the inset. The Zoom logo is visible in the bottom right corner of the main slide area.

lockdown learning visual arts

The Visual Arts Faculty have been extremely busy with all classes going immediately into remote learning in Term 3. In many classes, students were able to continue with their drawing, photography, digital media, and written

research tasks but when art materials were unavailable at home, teachers were able to adapt their normal programs to include more digital learning exercises. Through Zoom and Google classroom students from Years 7 to 11 were able

engage with each other, the art world and their teacher in a range of stimulating lessons that included real time art presentations, using Photoshop tools, collage and animation in their creative image making.

Ms Blake's Year 7 classes have been working on the unit, 'Colour in the Environment' completing a variety of still life works that involved manipulating images to develop abstracted still life. They are now developing their surrealist inspired personal interiors using photoshop, inspired by Magritte.



Sahaj Blatta



Yi Lin



Roman Samsanov

Ms Blake's Year 8 class were able to complete their wonderful self-portraits in pencil and are now in the process of distorting their drawings using photoshop.



Adam Ajami



Nicholas Fung



Edward Ho

Ms Blake's Year 9 students were involved in learning photoshop techniques on landscape images of Cockatoo Island. Year 11 VA elective are using a range of mediums on Australian Culture.

Vincent Shi

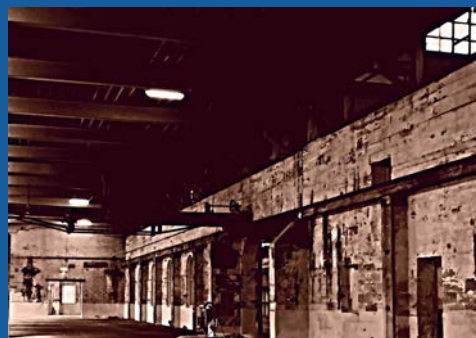


Qianrui Chen

Oscar Moon



Tim Park



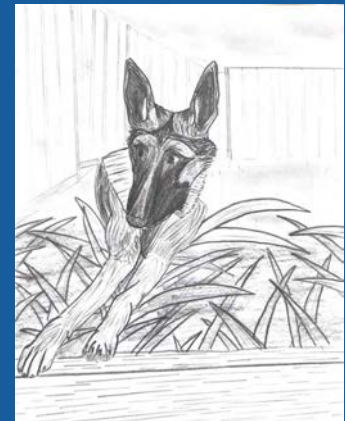
Kyle Chen



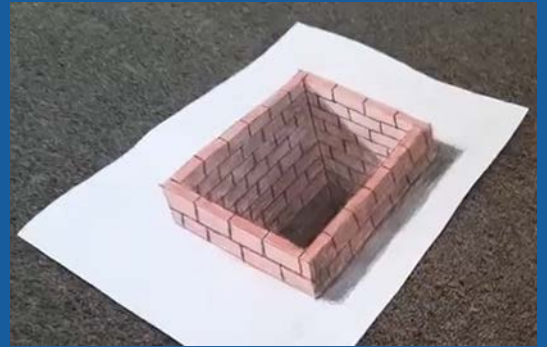
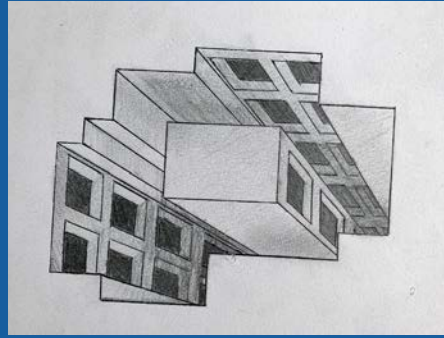
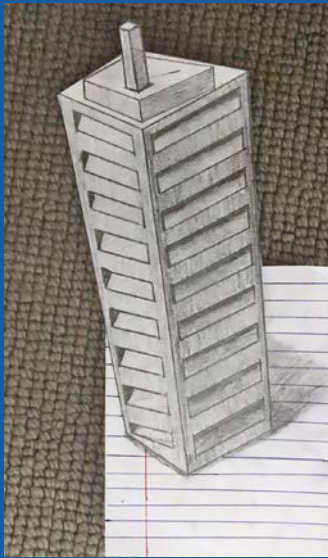
Qianrui Chen

Ms Nelson's Year 7 students have been working on their second unit of 'Line, Shape, and Pattern.' They began with a series of line exercises which led to a carefully observed and detailed drawing of an animal in its environment. Some chose their pets, others their favourite animal but all the students did a fantastic job with this task. They are now occupied with a collage of positive and negative shapes in a real or digital collage composition.

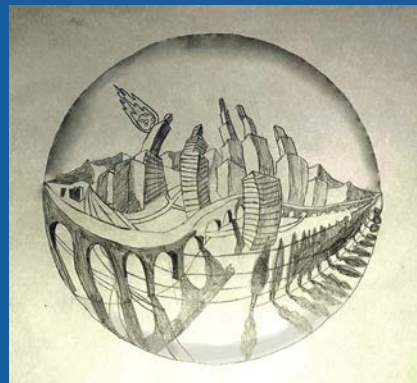
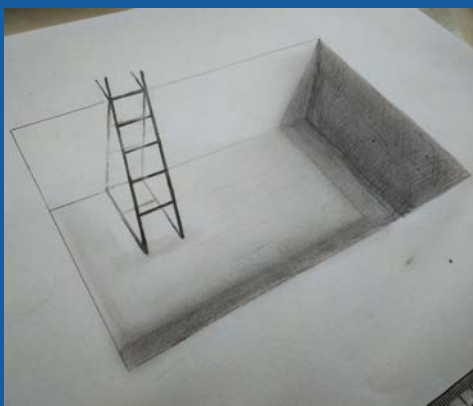
Year 8 have been engrossed in perspective exercises on the topic of 'The Built Environment' with outstanding hand drawn images, coloured in Photoshop and Optical Illusion drawings which have so far been 'mind blowing' in their 3D effects.



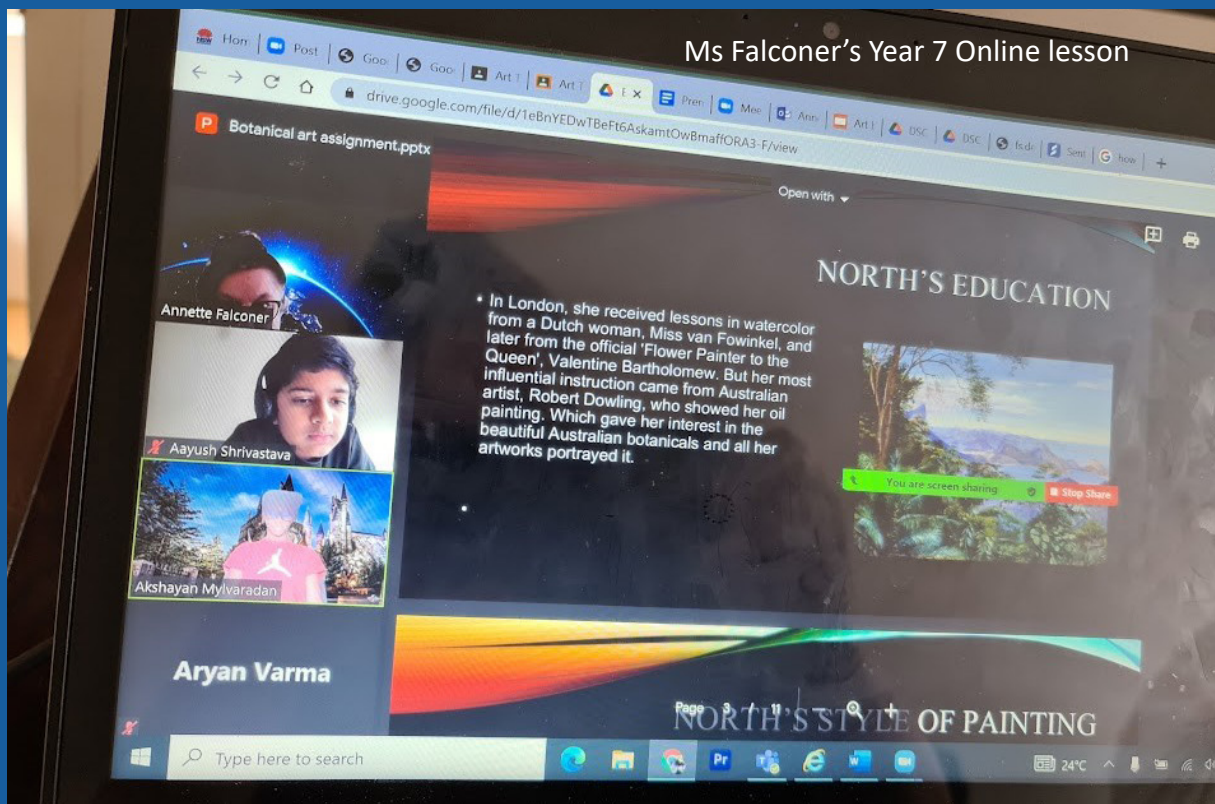
Ms Nelson's Year 7 - detailed animal drawings by Gazi Habib, Emmanuel Kasadelis, Eric Tang and Robert Wang.



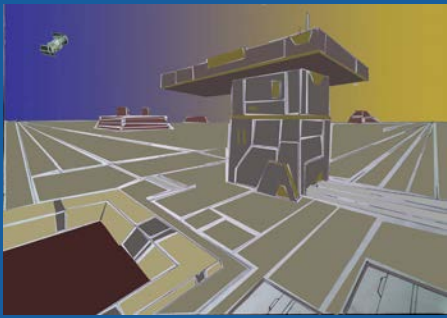
Ms Nelson's Year 8 Optical Illusion drawings by (top left and clockwise) Ian Kim, Frederick Liaw, Yusuf Mahdi, Nathan Sinlapawattana, Tokiya McDermott, Frank Ling



Ms Falconer's Year 7 Online lesson

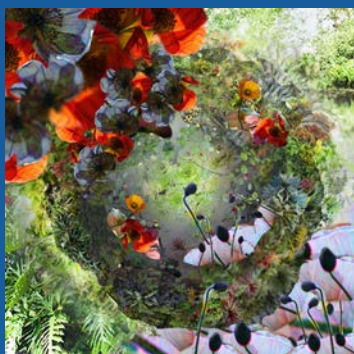
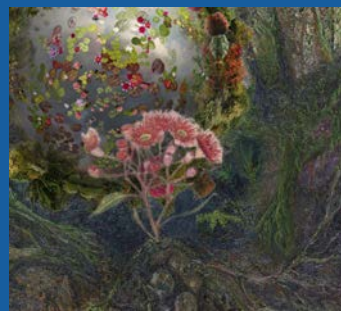


Ms Nelson's Year 8 class hand drawn and coloured using Photoshop. Work by (top left and clockwise) Ethan Bastion, Frank Ling, Jo Jo Li, Raphael Gonano, Jeff Vun, Yusuf Mahdi



Ms Falconer's Year 7 students have created Digital montages in Photoshop based on a range of Botanical Art which will form the basis for drawings and paintings at a later stage. The students have really embraced Zoom, doing lively individual presentations on their favourite botanical artists across art history. Year 8 are working on 'Cultural

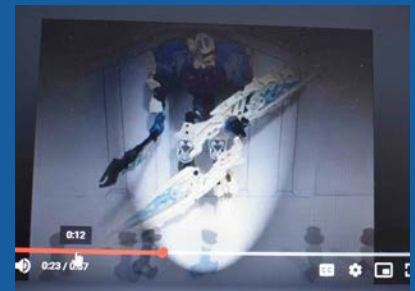
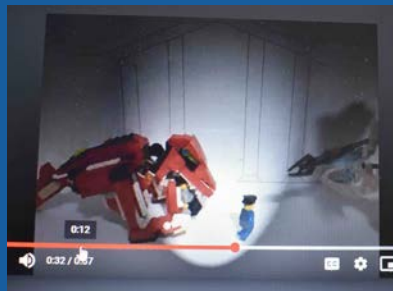
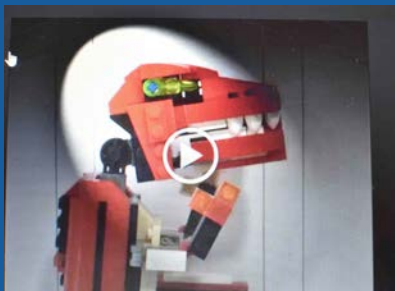
Heritage' graphic T-shirt designs, getting on Zoom and acting as investigative journalists to report on - Who is the real Banksy? 'Digital Botannicals' below by (top left and clockwise) Lokraj Jain, Karthik Arun, Matthew Davidson, Darren Chen and Rayd Khan.



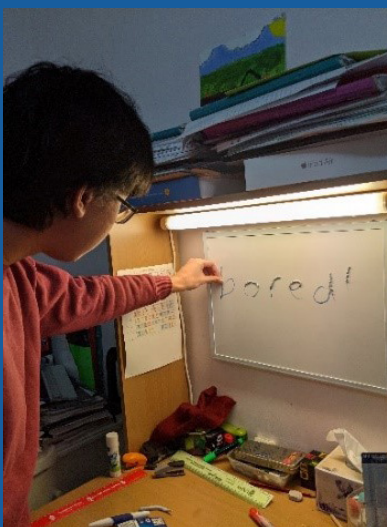
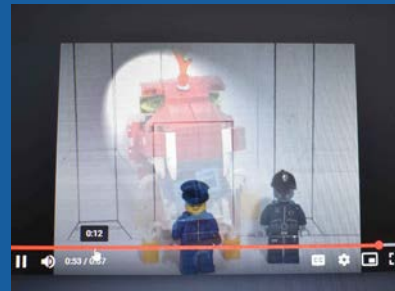
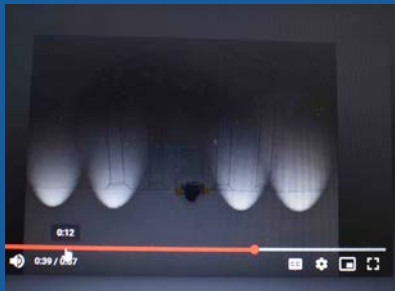
Year 10 students have created experimental animations on Still Life and have dressed up as art curators, critics and historians to present art analysis on Still Life artists via Zoom and recorded their videos for their classes. They are currently watching and debating on Zoom, soon to begin digital photography, painting, drawing and digital art.



Tariq Mah as Curator



Ethan Chung (Year 11) still shots of his animation



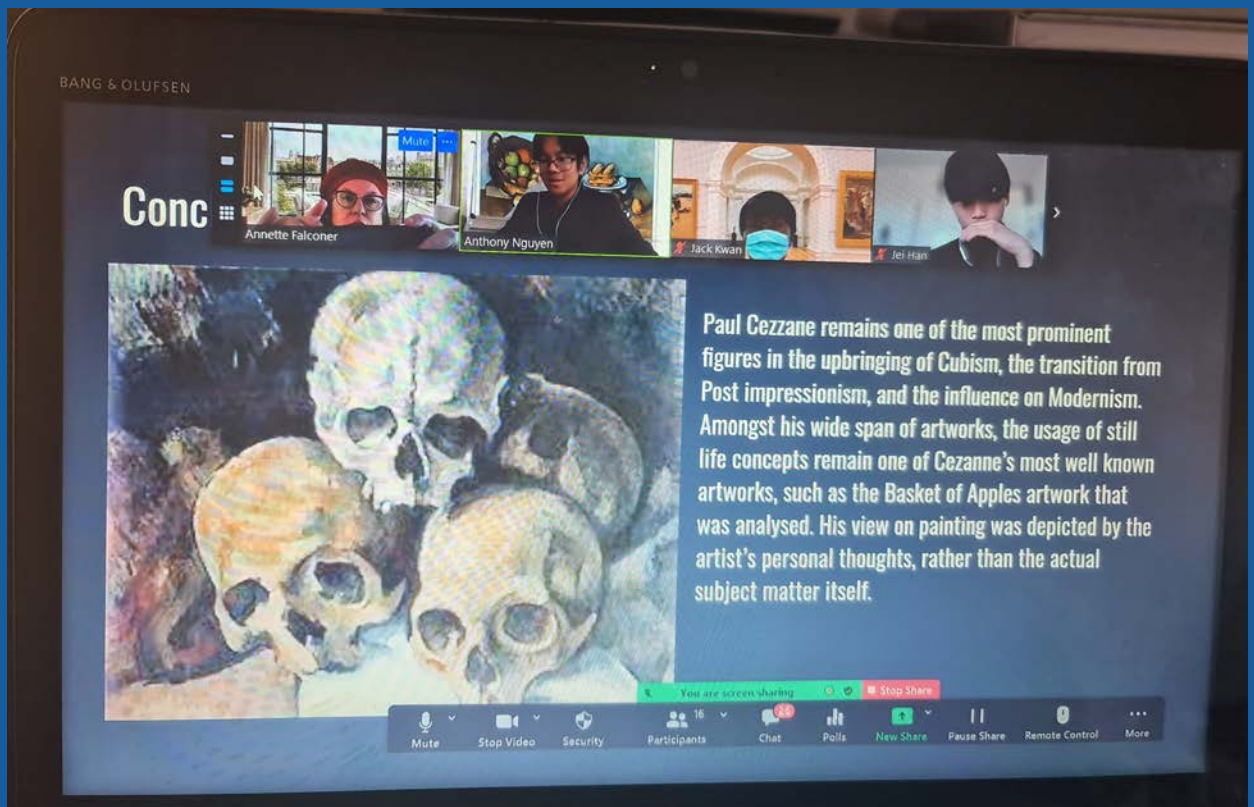
Arthur Vien, Year 11, setting up props for his animation

Ms Nelson's and Ms Falconer's Year 11 Photography have been busy with their film making and animations on the theme of 'Suspense' after a term learning about traditional analogue film and darkroom print making which we were lucky to complete before lockdown began.

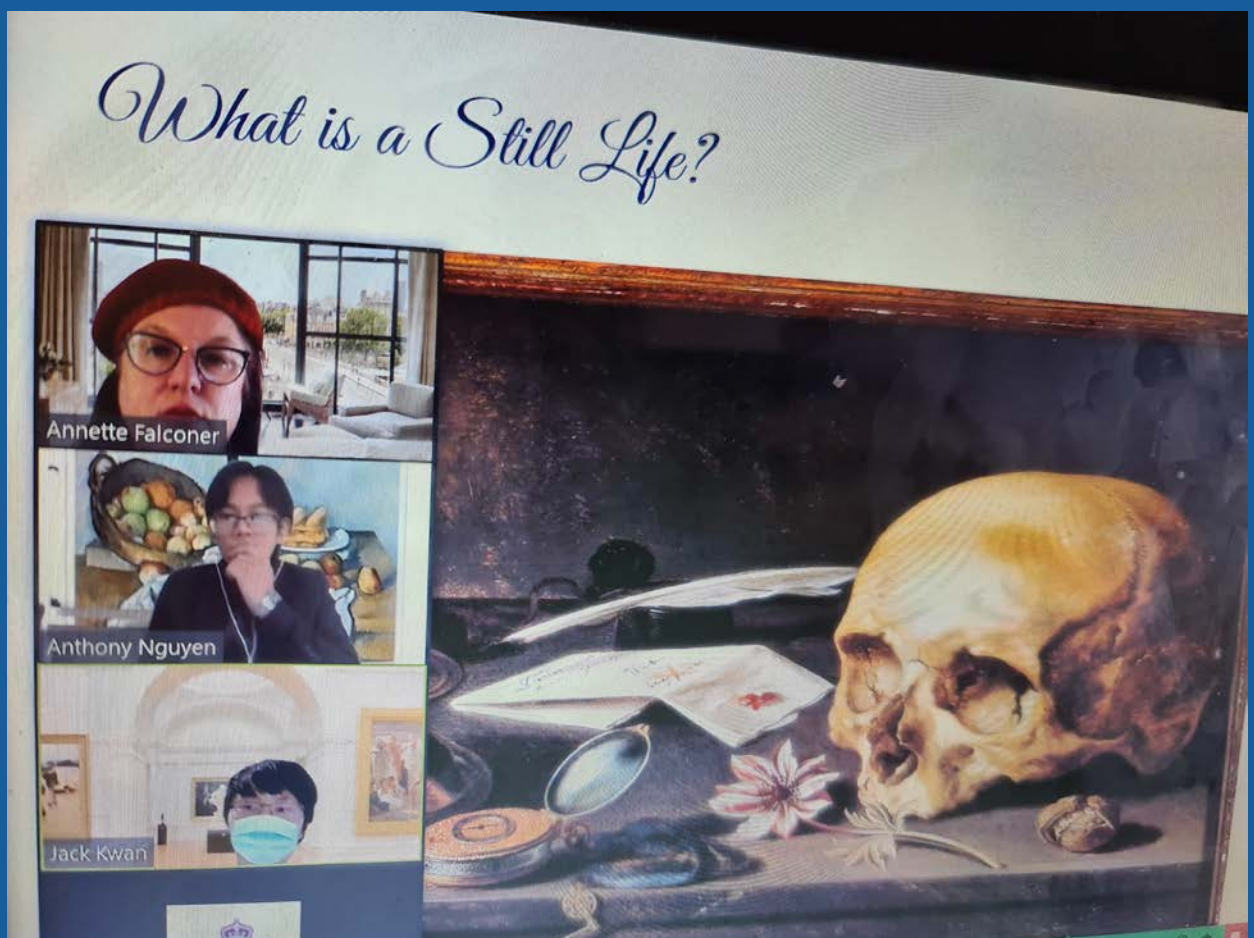


Still shots of Keith Trayhurn's animation





Ms Falconer's Online Lessons with Year 10



wellbeing wednesday and its many activities

Oscar Sadrana



Ms Falconer



Ms Steel



Anthony Nguyen



Ms Peachey



Brennan Park



James Bui



Roger Li



Mr Brown



Ms Voller



Ms Sugowdz



Shayaan Ansari



Ghassan Adra



Mr Davis



Chanson Lee



Mr Copeland



Mrs Cohen



Mrs Feigen



Arshayan Mylvaradan



Ms Noyes



Roman Samsonov



Jordan Wang



Ms Johnstone



Rafael Gonano



Thomas Zlater



Ms Tant



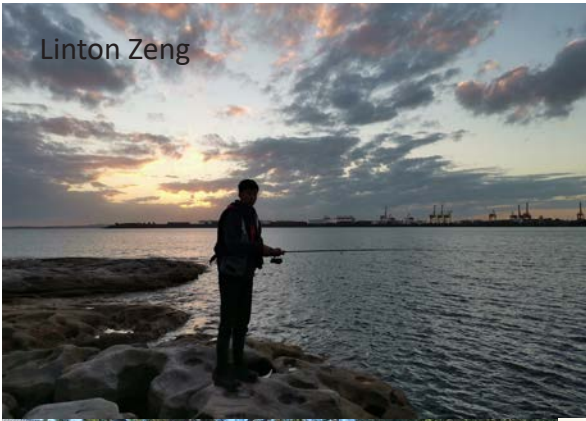
Mr So



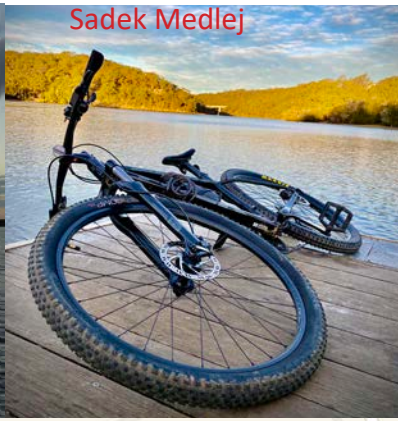
Ms Ryan



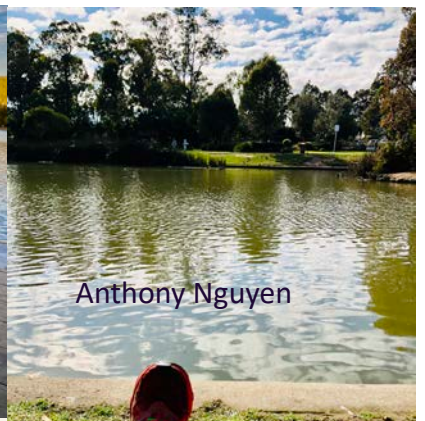
Brennan Park



Linton Zeng



Sadek Medlej



Anthony Nguyen



Nitin Karthik



Mr Werner



William Martell



Mehmet Demdi



Graduation

Kanye West

Album • 2007

Good Morning

Kanye West

Champion

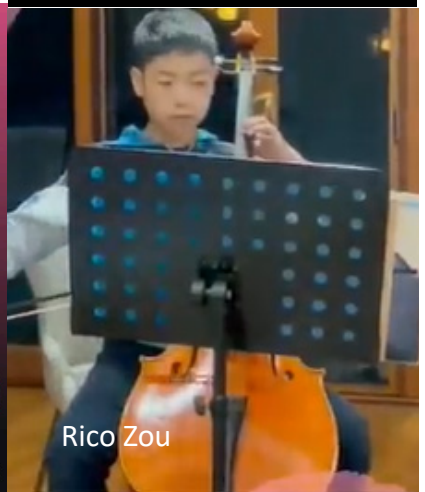
Kanye West

Stronger

Good Morning • Kanye West

MACBOOK AIR (4)

Anthony Nguyen



Rico Zou



Nathan Carvalho



Jeff Vun



Maxwell Lim



Mrs Cox

DURING LOCKDOWN SCHOOL NOTICES

VISITORS ON SITE/ SCHOOL PAYMENTS

Due to the current lockdown in Greater Sydney and some regional areas of NSW, there are to be NO visitors to the school.

The school office is currently locked. If there is an instance that work needs to be dropped off at school or work is to be picked up, then this area for drop off or pick up is just outside the front door of the administration building.

If a teacher has organised to meet with you, then you will have to email the school on sydneytech-h.school@det.nsw.edu.au prior to leaving home with your due time of arrival at the school. The teacher will then be notified.

IN ACCORDANCE WITH COVID-19 AND DEPARTMENT OF EDUCATION GUIDELINES, THE SCHOOL REQUESTS AT THIS TIME, AND IT IS PREFERABLE, THAT ALL PAYMENTS BE MADE ONLINE.

SCHOOL SECOND HAND UNIFORM SHOP

Due to the current Covid-19 situation and lockdown across metropolitan Sydney, the Second Hand Uniform Shop is closed.

No visitors are allowed on site.

No volunteers can be on site.

No purchases can be made.

No uniform donations can be brought to the school.

The school will notify parents of the next possible date for accessing the Uniform Shop when Covid-19 lockdown restrictions are lifted.

BUILDING FUND

Sydney Technical High School was relocated to the current site in Bexley from the city and the school opened in 1953. The building is very solid, but not very flexible and of course aspects of the school require constant upgrades.

The financial support of our parent and alumni community is critical in renovating school facilities through support of our Building Fund. Donations to the fund over \$2 may be tax deductible.

Recently, the Building Fund has renovated both the senior and junior toilets together with a major upgrade to the students' change rooms. We are currently upgrading our electrical network to enable upgraded wifi facilities to provide students with continuing future technology resources

Can I urge you, on behalf of our school community, to consider contributing generously to this very worthwhile fund, as we all benefit, towards ensuring that our students learn in an environment which is fit for our purpose: OPTIMUM LEARNING!

LIBRARY FUND

Want to be 'rich and famous'? Then make it a rule to read daily. Famous and very rich people like financier Warren Buffet, and Bill Gates read daily. A number of our students are avid readers and the 7-10 English reading program has given many students a great appetite for good books.

Our Library Fund gives parents and alumni the opportunity to donate to the Library. Donations to the fund over \$2 may be tax deductible.

The fund recently enabled us to renovate the whole area to make it modern, user friendly and a place to hang out. Open every day at 8am, the Library Fund lets the school keep interesting, thought provoking and modern books available for our students. The school introduced the READ program in 2018. Every student and teacher are required to read for 20 minutes every morning.

Could I urge all parents to contribute generously to the Library Fund, so that we can keep up to date with the sorts of novels and series that your son enjoys, and put them on the path to becoming lifelong readers.

DURING LOCKDOWN, PAYMENTS TO THE BUILDING FUND AND LIBRARY FUND CAN BE MADE:

- on line via the school website - Parent Online Payment (POP)
 - <https://sths.nsw.edu.au>