One of the undoubted highlights of this week has been the opportunity to welcome back Wallaby Old Boy, Scott Sio (Class of 2009), from the recent Rugby World Cup competition. As many experts would acknowledge, the very successful Wallaby campaign was certainly “aided and abetted” by a much improved performance by our forwards as far as scrummaging is concerned, with Scott being a key person in that improved performance. His well-chosen words and reflections, which acknowledged the importance of his family’s support were not only encouraging for the boys and staff but conveyed a spirit of humility and maturity that was inspiring and mirrored very much what we here at Trinity regard as being indicative of true sportsmanship.

The fact that he was kind enough to donate his World Cup jersey from his match against Fiji to the School also speaks wonderfully of his generosity and continuing support of the School and what it stands for.
A recent report published by the Foundation for Young Australians titled “The New Work Order” focuses on the importance of young Australians having the skills and experience for the jobs of the future, not the past. This report plays a key role in our work as part of the ELEVATE project, “Agile Design for High Potential Learners,” as we explore the future opportunities our students face and the world they need to thrive in.

The report suggests that, looking forward, the revolution in work for young Australians will be driven by three economic forces:

> **Automation**: Ever-smarter machines are performing ever-more human tasks – taking, replacing or eliminating the need for whole categories of employment.

> **Globalisation**: Our workforce is going global and the global workforce is coming to us.

> **Collaboration**: Technology is increasing the potential for cooperation and collaboration across multiple platforms.

These three trends shaping the future of work - automation, globalisation and collaboration - present opportunities as well as risks for young people today. In particular, they offer the opportunity not only for higher productivity jobs, but also more creative, independent and meaningful employment.

Laszlo Bock, the senior vice president of people operations for Google, was reported in the New York Times, 22 February 2014, whilst acknowledging the critical importance of a quality education for future success, offering this advice to young people:

“Beware. Your degree is not a proxy for your ability to do any job. The world only cares about — and pays off on — what you can do with what you know (and it doesn’t care how you learned it). And in an age when innovation is increasingly a group endeavour, it also cares about a lot of soft skills — leadership, humility, collaboration, adaptability and loving to learn and re-learn. This will be true no matter where you go to work.”

Jennifer Westacott, the CEO of the Business Council of Australia, has also recently stated that:

“We are moving to a world where innovation and creativity will be the difference between success and failure - for companies, for governments, for individuals and for educational institutions. For all these reasons, human capital development – that is, developing people to their full potential – is going to be the absolute game changer in keeping countries, and the people within them, productive, competitive and prosperous.”

Trinity has a strong commitment to academic excellence and nurturing student growth at all levels of their education. We are also committed to helping our boys explore these new frontiers in ways that fire their imagination and ignite their passions. For our boys to flourish we want them to move beyond just focusing on how much content they know, to the importance of developing the capabilities and mindset to design their own futures and develop the higher order skills that will be critical.

Jason Cheers | Academic Dean
DIRECTOR OF SPORT AND CO-CURRICULAR ACTIVITIES

ACTIVE TRANSPORT, ACTIVE PLAY
Meeting the physical activity recommendations for good health and wellbeing

The 2014 Active Healthy Kids Australia Report Card on Physical Activity For Children and Young People revealed that while involvement in organised sport in Australia is strong, overall physical activity levels in our children and young people are declining. The main reasons for this include a decrease in active transportation and active play and an increase in sedentary behaviours (including screen time).

The benefits of meeting the recommended levels of physical activity, outlined in the table below, include enhancing a range of health outcomes, optimising cognitive function and developing autonomy. While many of our students would regularly meet the threshold levels, many would not.

Consideration continues to be given to strengthening the School’s formal offerings in sport, co-curricular, PDHPE and the Fundamental and Active Skills at Trinity (FAST) programme. The latter being a new part of the Prep and Junior Schools’ PDHPE programme.

Positive family and peer behaviour is also vital in encouraging optimal physical activity rates and the development of a life-long, habitual adherence to physical activity in our young men. Some options for parents to consider or continue to promote include:

> Encouraging your son to walk or cycle to and from school
> Arranging for drop off and pick up a few blocks from school, thus facilitating a walk while you beat the traffic in the carpark or around school
> Walking or cycling with your son to school, or part of the journey
> Encouraging your son to combine active transport with public transport
> Facilitating engagement in incidental, active play and physical activity at recess, lunch and at home between stints of academic work and family time
> Managing screen time

Good nutritional practices are also vital to promoting good health. Further, age appropriateness should be carefully considered by parents when encouraging their children to commit to these initiatives. In addition, all active transport options should be combined with thorough parental guidance on road and general safety rules.

Recommendations for Children (5-12 years) and young people (13-17 years)

> Accumulate at least 60 minutes of moderate to vigorous physical activity each day
> Undertake a variety of aerobic activities including some that are vigorous
> Undertake physical activities that strengthen muscles and bones on at least three days each week
> Minimise the time being sedentary each day and break up long periods of sitting as much as possible
> Limit screen time to no more than two hours per day

John Allen | Director of Sport and Co-curricular Activities


YEAR 8 CATCH UP VACCINATIONS

The NSW Health Department will be sending a team of specially trained registered nurses to our School to administer catch up vaccinations to boys in Years 8 on Thursday 26th November, 2015. Only boys currently in Year 8 who require a catch up vaccination and who have returned the consent forms will be given the vaccine. After the boys have been immunised they will be given a Record of Vaccination to take home so that immunisation records can be kept together and the family doctor can be notified.

Please contact Sr Katie Brooks in the Health Centre on 9581 6023 if you have any questions.

Peter Karakiozis | Director of Campus Administration

DIRECTOR OF CAMPUS ADMINISTRATION

From

YEAR 8 CATCH UP VACCINATIONS

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HSC TECHNOLOGY EXHIBITION NOMINATIONS

It is pleasing to report that the Technological and Applied Studies Department has had two HSC nominations for the Technology Exhibition at the Museum of Applied Arts and Sciences, Powerhouse Museum. If selected they will be on display from the 26th of February to 8 May 2016.

The Nominees were:

> Aron Sheldon (15/12Ke) for his Design and Technology project which was a dog waste collector for parks.
> Mitchell Perry (15/12We) for Industrial Technology Furniture which was a marquetry Hall Stand.

Congratulations should also be given to their teachers, Mr Stephen Heanly for Design and Technology and Mr Michael Spratt for Industrial Technology Furniture, who put in a lot of time and effort in guiding them to achieve such a pleasing result.

Michael Leadbeatter
Dean of Technological and Applied Studies

From
Dear Parents,

We would like to remind you of several changes that have occurred creating a different pathway to your existing online information for current members of our community.

Importantly for you to note is the new URL address community.trinity.nsw.edu.au.

This new location community.trinity.nsw.edu.au should be your new default ‘Go to’ page for all things Trinity!

Here you may confidently obtain the latest Bulletin/Newsletter and sports fixtures. You will also be able to pay school fees, book physio appointments, order your son’s lunch and much more.

This site also contains all the other in-house information that you require with some changes made to make the user experience enjoyable. It is important that you save this new community URL to your bookmarks or favourites list.

To save this link for example, in Google Chrome, click the star icon at the top right hand side of your address bar; if you use Safari, click the bookmarks button at the top right hand side of your address bar and click favourites from the drop down list; or in Internet Explorer, select Favourites from the menu and click “add to favourites...”.

Please take the time to familiarise yourself with the new presentation and locations. Most importantly, once familiar with the site, we hope you will be able to locate and share all the information you require much more easily.

Kell Daniels | Assistant to the Head Master | Director of Creative Arts
REFLECTIONS ON PASTORAL CARE WEEK

Pastoral Care Week involved a range of interesting and at times challenging events for our School community to engage in. There were opportunities for our students, staff and parents to reflect on some of the more salient issues facing our children in today’s often complex and demanding society.

The week commenced with a solid turn out of parents attending a presentation from one of Trinity’s former School Psychologists, Mr Peter Tryon. Peter engaged the audience in what became an interactive discussion-filled session on Parenting Style and Teen Development.

The following day saw our Year 10 students participate in Mr Trent Southworth’s workshop on risky behaviours and making responsible choices. Trent was also able to reflect with the students on his experiences as a former NSW Youth Liaison Police Officer.

Wednesday of Pastoral Care Week provided for a number of events that our community participated in. The Primary Wellbeing Survey is an anonymous survey which all Year 2, 4 and 6 boys complete. It focuses on indicators of social-emotional wellbeing, emotional skills (i.e. resilience and coping skills), social skills and learning skills. The results of this survey, combined with the many other indicators used by the School, help us to better understand the social and emotional needs of our students establishing an evidence-based process for planning and evaluating our approaches to pastoral care and teaching and learning.

In the Middle and Senior Schools, students undertook and engaged in some informative activities and presentations. Year 8 students involved themselves in Brain Day – which included a presentation from yours truly and Mr Mitch Huie on Mental Health. We were pleased to reflect with the boys during the presentation on their eagerness to ask difficult questions around mental health and the effects on young people. The Year 12s were thoroughly engrossed in Mr Paul Dillon’s entertaining and challenging presentation titled Young People and Risk Taking. Next, The Head Master’s reflections in the Head Master’s Bulletin at the end of last week spoke to the well-attended Evening of Prayer held at the Head Master’s Residence.

Later in the week saw our Years 5 and 6 Primary School students entertained by Brain Storm Productions with their lively play titled “Sticks and Stones”. This wonderfully engaging performance covered a number of considered areas relevant to our primary boys including the effects of bullying, anxiety management and challenges of single parenting. The Year 9 students also watched this play later in the week, with the actors incorporating more teen-focused content. The Year 11 students were most impressed by the motivational presentation of Mr Glen Gerrey. Glen challenged the students to identify important life goals to work towards whilst sharing his own personal struggles living with a debilitating illness. The Pre-K to 6 and Years 8 to 12 students enjoyed a Mufti Day and were encouraged to donate a coin to The Heart Research Institute. Over two thousand dollars was raised.

A number of School staff representatives participated in The Practice of Teaching at Trinity (POTT) Conference that focused on the continuing development of leading practice in teaching and learning and the welfare of our students. An invitation was also extended to Old Boys, who are involved in full time Christian Ministry, and current School Berea Members, who were provided with an enjoyable and engaging address from Reverend Justin Moffatt (Class of 1987) on the work of Christ in his people.

Pastoral Care Week provides a wonderful opportunity for all members of the School community to listen and converse around the important topics of today that influence the development and learning of the boys and young men who attend the School. It was once again thoroughly rewarding to be part of the week and to see how the students participated in conversation and debate around so many important concerns.

Tim Smith | Head of Counselling
SOCIETY OF THE ARTS

2016 SOCIETY OF THE ARTS SCHOLARSHIPS
Applications are invited from Year 11 visual arts, drama and music students. Click here to download the application form

Applications close Monday 16 November.
Contact: Catherine Benz, Convenor, Society of the Arts
e-mail cbenz@trinity.nsw.edu.au

DIARY DATE

JANUSZ WAWROWSKI
(Poland) Solo Violin

Thursday 26 November, 7.30pm – Orchestra Room

Hailed as “one of Poland’s brightest young talents” (Strings), virtuoso violinist Janusz Wawrowski is held in the highest regard for his “utmost artistry and musical conviction” (The Strad).

As a very young student, he shot to prominence with an extraordinary performance in one evening of all 24 Caprices by Paganini, which he recorded in 2007 as his first CD.

In 2013 he signed a multi-year contract with Warner Music and will be recording next year with the BBC Symphony Orchestra. He has performed in concert halls around the world, from the Berliner Philharmonie to Piotr Tchaikovsky’s Conservatory in Moscow and many more.

He will be coming to Sydney on the invitation of Kambala, and we are thrilled he has agreed to give this recital at the conclusion of his visit.

Bookings open now!
Book online at www.trybooking.com/IXNU
Tickets from $20.

KERRIGAN FILLS BOXES AND RAISES MONEY FOR OPERATION CHRISTMAS CHILD

On Monday the 2nd of November a group of Year 11 and 12 boys from Kerrigan House hosted a very successful barbeque for the whole school in order to raise money for the Operation Christmas Child shoebox appeal. This is a project developed by an organisation known as Samaritan’s Purse who aim to provide emergency relief and development assistance to people, predominately in developing countries, who are victims of famine, natural disaster and poverty regardless of race, age or gender. Not only were the proceeds from the successful fundraiser used to cover the purchasing and postage costs of the shoeboxes, but a substantial amount was also donated. In addition, students in Kerrigan House have been very busy filling the shoeboxes with new, delightful toys that are sure to make some children around the world, very happy on Christmas Day. As we approach December 25th, it is worth reflecting on the real meaning of Christmas and the fact that there is more joy to be found in giving gifts to those less fortunate than receiving gifts ourselves.

Anna Giuliani | Kerrigan Housemaster

TRINITY FAMILY FIESTA
SILENT AUCTION DONATIONS NEEDED

Before you know it, our 2015 Family Fiesta will be on! We are seeking donations for items to be sold in the Silent Auction. You can help by sending in meal vouchers for restaurants, items used in leisure activities, vouchers for ‘experiences’, sporting memorabilia, jewellery, homewares, vouchers for music lessons, floral arrangements or beauty treatments... The list is endless! For more information contact:

Fiona Davies
mobile 0417 448 663 email talk2fi@gmail.com

www.trinity.nsw.edu.au
Two red cupcake patty pans, some black and green paper. Some Kinder lads took these and made them into a poignant symbol of Remembrance Day – the poppies from the fields of Flanders in the First World War. Other poppies were on display too, all made by the boys, and all reminding us to remember the soldiers who went away to the wars of the last century and who never returned, having given their lives in foreign fields. Our three campuses Preparatory, Junior, and Middle and Senior Schools all held reverent and solemn ceremonies on Remembrance Day, November 11. At each the Ode to the Fallen was read, the last Post and Reveille played, and a Catafalque Party of Senior Cadets paraded at each ceremony. For my part, the services took me back to the day I heard Mr Menzies, Prime Minister of Australia, as his “melancholy duty” tell the nation that since England was at war with Germany, so was Australia. My main recollection is that of mum bursting into tears, as there was the grim and dreaded prospect of my brother ten years my senior having to go to war, which in due course he did. The dark days of anxious worry for my parents and the community at large I remember as an ever-present cloud, but, being only a lad, I used to look forward to my brother coming home on leave, for when he went back, he always gave me two shillings, (20 cents today) but then a princely sum indeed! No doubt in all the ceremonies this week I guess a lot of the younger lads may have had a similar attitude to what was being said, all unaware of the true horrors of war, and though as they mature in years they will come to more fully understand what is said at such occasions about service and sacrifice, I found myself praying profoundly that none of them – from the littlest kindergarteners with their home made poppies, to the older boys and the Cadets in the flag and catafalque parties – will ever be dragged into war.

Ron Ogier

1. The Middle and Senior School ceremony with Catafalque Party. 2. Callum Arnold (10St), was the Bugler at the Quad assembly. 3. The Head Master and School Captain turn a page of the Book of Remembrance 4. and 5. Some Junior School Lads watching the ceremony 6. and 7. The Catafalque Party at the Junior School and the Prep. 8. and 9. Poppies being placed at the Prep Ceremony as School Captain Jamie Christopoulos reads the Trinity Honour Roll. 10. The line of poppies at the Prep 11. The flag being lowered to half-mast at the Prep School.
You are warmly invited to the
Trinity Connection Christmas Lunch
Saturday 28th November at 12noon
at the “Gardens on Forest” 764 Forest Road, Peakhurst
Cost $55 per head
RSVP to Liisa Chappelow by 21st November
phone 9581 6024 or email lchappelow@trinity.nsw.edu.au

High Tea in the Terrace Room
hosted by the Summer Hill Auxiliary
A new Fiesta Event
Meet your friends and relatives for an end of year catch-up in the air-conditioned comfort of the Terrace Room
Sweet and savoury treats plus tea and coffee for $20 pp
Pre-book your place now to avoid disappointment.
Two sessions and only 60 seats per session are available: 11am-12noon and 12:30pm-1:30pm
Click here to book your place now.
The Terrace Room is located up the stairs outside the Cafeteria. Disabled access is available with prior notice.

Trinity Christmas Cocktail Party
You are warmly invited to join us in an end of year Christmas Celebration.
Date Friday 20 November 2015
Time 6:30pm for 7pm
Price $50pp for delicious cocktail food, great company, and dance music
Venue Lewisham Campus 5 Thomas St Lewisham Convenient to Lewisham West Light Rail and Lewisham Railway Station
Dress Smart Casual | Christmas themed accessories will be rewarded!
RSVP Friday 6 November RSVP extended - book now book online via Community Directory (click here to RSVP now)
Parking Local parking is limited. Try West Street or the Southern side of the railway.

TRINITY GRAMMAR SCHOOL
School Prayer
Parents and friends are most welcome to come and pray for our boys and the School, on Tuesdays between 8.30am and 9.30am. The Prayer Mornings are run on a rotational basis, on alternate weeks, at the Preparatory School campus (see the Preparatory School News for further details) and the Summer Hill School campus.

Junior, Middle and Senior Schools Summer Hill – meet at reception in the Junior School Building, on even weeks of term (Weeks 2, 4, 6, 8,)

Term 4 November 24th
Come and join us so we can encourage each other, help form a sense of community within the School, and genuinely bring the needs of the School community before our great God.

Summer Hill contacts
> Greg Webster | Senior Chaplain, Summer Hill
e-mail gwebster@trinity.nsw.edu.au
> Margaret Chu (Summer Hill)
mobile 0433 124 523

The Trinity app
The new Trinity app is now available from the App Store and from Google play for you to download. The new app has been designed to provide up to date information for our on the go community. Information such as sporting fixtures, wet weather updates, calendar dates and even the latest newsletters.

It will also allow you to notify the School of your son’s absence and provides an avenue to contact certain staff and leaders of our community groups. We hope the new app makes life just that little bit easier. Please email any feedback you may have to info@trinity.nsw.edu.au
Find out what Boarding at Trinity can offer your son.

Full, Weekly and Day Boarding vacancies for 2016 are now available.

Contact Mr Rod Fitch, Boarding House Master to find out more.

phone 9581 6068
email rfitch@trinity.nsw.edu.au
CAS ROUND 4 vs CRANBROOK

1ST V

Trinity’s great form continued as they put Cranbrook to sword by 46 points and posting over a hundred (103-57) for the first time this season in front of a large enthusiastic home crowd on a humid Friday night in the TGS Sports Centre. A thunderous dunk from Riley Smith (12Ke) in the opening quarter had the Trinity students in a frenzy, as the Greens looked to open up an early lead at the end of the first period (25-16). For the second quarter Trinity stepped up the pressure defensively, causing Cranbrook to cough the ball up with Trinity then responding with a barrage of three pointers from Sebastian Diaz (10Ta), Jayden Tanevski (12La), Davo Hickey (11Ke) and Jake Kerry (11Ho). Back-up big man John Bechara (12Mu) also provided spark off the bench with a couple of sharp moves in the paint to see Trinity in total control at the main break up 25 points (51-26).

The Firsts started the third period determined to make it harder for their Eastern Suburbs rival to score and continued to feed off their mistakes. Jed Keogh (11Ar) decided to get in on the three-point party and nailed one from beyond the arc, while Davo Hickey hit three long bombs to see Trinity jump out to a matching winning lead going into the final quarter (81-39). Jarryd Fernandes’ (12La) good form at both ends continued, pouring in for 11 points for the half, and once again Trinity’s presence at the defensive end is providing all the fuel for Trinity’s rolling offence this season. Trinity will head into the final game of the first round looking to keep their perfect season alive against a very tall Barker outfit on their home floor, keen to make amends for their only loss of the season against Knox.

Leading Statistics

<table>
<thead>
<tr>
<th>Player</th>
<th>Points</th>
<th>Rebounds</th>
<th>Steals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riley Smith</td>
<td>20</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>Jayden Tanevski</td>
<td>20</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Davo Hickey</td>
<td>15</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>Jarryd Fernandes</td>
<td>17</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

2ND V

Friday night games always have the Trinity boys pumped and being the first of the season and at home, the Greens were keen to keep their unbeaten record intact. Cranbrook’s different-looking zone had Trinity second guessing early, but Trinity did a great job of making adjustments on the run and the more the ball was moved against the zone, the more cracks began to appear.

Liam Rasch (12WJ) was again dominant on the glass, completely controlling the offensive and defensive rebounds. Harry Dunn (11Mu) came on in the first half and provided the spark that got the boys rolling with two consecutive three-point bombs. His contribution off the bench was really a game-changing performance. Edison Chan (11WJ) also provided some spark throughout the game with a solid contribution, especially on the defensive end. This was certainly a danger game for the Seconds and they did not fall into the trap of looking too far ahead to run out winners by 12 points (38-26). A big game a waits the boys in Green when they head to Hornsby to take the only other unbeaten (4-0) School, Barker College.

Leading Scorers

<table>
<thead>
<tr>
<th>Player</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harry Dunn</td>
<td>8</td>
</tr>
<tr>
<td>Pat Di Giannantonio</td>
<td>8</td>
</tr>
<tr>
<td>Liam Rasch</td>
<td>7</td>
</tr>
</tbody>
</table>

Jarryd Fernandes (12La) gets the jump on the Cranbrook defence
4TH V

It was a much better start from Trinity this week with the intensity and pressure on Cranbrook leading to many steals. Gabriel Whitfield (11WJ) was everywhere on the court and dominated in and around the paint. Niils Thompson (11WH) and Lachlan Boys (12WJ) combined well in the last tense minutes of the match to see Trinity hold on, to win by two points.

8TH V

Trinity started fast and didn’t look back. With an 8-2 lead there was scoreboard pressure from the outset. Jason Hong (11We) was great for Trinity with 12 points, closely followed by Ajay George (11We) with 9 points.

10Cs

It was a low-scoring first half, which saw the 10Cs with a lead from good strong plays in the key by Oliver Arkell (WJ). Andreas Pappas (Sc) was relentless putting pressure on the ball carrier and good shooting from Harrison Haritos (Ta) helped the boys come away with another win.

10Ds

The Trinity boys were locked in a tight tussle early in the match, but great pressure from Mahdi Makki (La) forced multiple turnovers, giving Roberto Olles (Ar) quick transitional baskets. Zac Lorusso (He) controlled the ball in the second half and helped the team to its fourth straight win.

10Es

Trinity showed great patience and discipline to wear their opposition down, running away with the game to win by 18 points. Joshua Ward (Sc) was unstoppable with 16 points.

10Fs

The Greens were again unstoppable in their 43-12 win with live-wire Ned Hatton-Ward (Sc) ‘on-fire’ with 18 points. Chalking up a quick seven team fouls, their discipline was especially impressive, conceding only four more for the whole game.

10Gs

The Gs played from behind for the whole game to come up one point short. With Trinity in bonuses, Cameron Tam (10St) was the ‘go-to man’, who stepped up to the free throw line to try to snatch victory in the last seconds.

10Hs

A great team win by the Hs with every player contributing to the 39 - 14 score line. Marcus Mircevski (St) and Stanley Chen (We) benefitted from running into good spaces in attack.

9As

Trinity came out firing to go up by ten points in the opening minutes. Eddy Alcock (WJ) impressed on the defensive end, while Alec Mackenzie (WJ) was strong on offensive. An impressive second half from Trinity led to the Greens running out 25-point winners.

9Cs

Trinity played an impressive game against a well-organized team. The Cs’ captain Maxwell Reissis (WJ) returned from Field Studies, produced a dominant inside performance, scoring and rebounding at will. He was well supported by Christopher Raad.

Results | Trinity vs Cranbrook

<table>
<thead>
<tr>
<th>Team</th>
<th>Score</th>
<th>Result</th>
<th>Team</th>
<th>Score</th>
<th>Result</th>
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<tbody>
<tr>
<td>1st V</td>
<td>103</td>
<td>Win</td>
<td>10F</td>
<td>43</td>
<td>Win</td>
</tr>
<tr>
<td>2nd V</td>
<td>38</td>
<td>Win</td>
<td>10G</td>
<td>26</td>
<td>Loss</td>
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<td>3rd V</td>
<td>16</td>
<td>Win</td>
<td>10H</td>
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<td>9A</td>
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<td>25 Win</td>
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<td>Win</td>
<td>9B</td>
<td>16</td>
<td>27 L</td>
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<tr>
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<td>26</td>
<td>23 Win</td>
<td>9C</td>
<td>31</td>
<td>29 Win</td>
</tr>
<tr>
<td>7th V</td>
<td>28</td>
<td>34 Win</td>
<td>9D</td>
<td>39</td>
<td>24 Win</td>
</tr>
<tr>
<td>8th V</td>
<td>31</td>
<td>11 Win</td>
<td>9E</td>
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<td>50 Loss</td>
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<tr>
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<td>31 Loss</td>
<td>9F</td>
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<td>44 Loss</td>
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<tr>
<td>10th V</td>
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<td>79</td>
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Results | Trinity vs Newington

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<td>12</td>
<td>21 L</td>
<td>8H</td>
<td>6</td>
<td>46 L</td>
</tr>
</tbody>
</table>
9Ds
A composed effort by Trinity, where their defence was strong and the offence selfless to lift the Ds to a well earned victory. Defensively, Lin Pham (Mu) provided some highlights with clean shot blocks, while Adam Chang (St) helped with fast break coverage.

8As
Another strong performance from Trinity, possibly one of the better wins for the season, considering only seven of the boys were available. Christian Diaz (Ta) was dominant throughout the game, pushing the ball early in transition every opportunity he got, which resulted in the most points scored by the team this season (78). A solid week at practice this week will hopefully result in a win against Barker and an undefeated start to the season.

8Bs
The 8Bs seem to be making a habit of starting slowly and Saturday was no exception. However, as the game wore on, the boys began to assert their authority on the game. Alex Solomau (Ta) had his best game of the season and shot the ball exceptionally well, ending the game with 13 points.

8Cs
Trinity benefited from the return of big man Sam Yang (Fo), allowing the team to dominate the boards early on in the game.

8Ds
Intelligent decision-making from Leo Garaci (Ho) and Lachlan So (Ke) led to well executed offence and ultimately a 9-point victory.

8Es
The team had a terrific win over Cranbrook on the weekend. Gene Marantos (Yo) and Alan Kurien (Hi) were welcome additions to the team this week. Alan Kurien was a dominant rebounder throughout the game, while Gene Marantos controlled the pace of the game. Lucas Kapetanellis (Ke) also had a terrific game, showing great hustle on defence and scoring 4 points.

8Fs
Trinity dominated throughout the entire game, with Michael Nguyen (Ar) showing great improvement defensively, getting multiple steals. Lachlan Chan (Fo) did an excellent job of putting pressure on Cranbrook shooters and was able to create layup opportunities for other players in transition.

Ben Morrissey | MIC Basketball

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**INVITATION**

The School Council and the Head Master invite you and your friends to attend...

- **THE FESTIVAL OF NINE LESSONS AND CAROLS**
  - on Friday, November 27th at 7.30pm at St Andrew’s Cathedral, Sydney
  - and on Sunday, November 29th at 8pm in the War Memorial Chapel, Summer Hill Campus

- **THE JUNIOR SCHOOL ANNUAL PRIZE GIVING**
  - on Thursday, December 3rd at 10am in The James Wilson Hogg Assembly Hall, Summer Hill Campus

- **THE PREPARATORY SCHOOL ANNUAL PRIZE GIVING**
  - on Thursday, December 3rd at 2.30pm in The James Wilson Hogg Assembly Hall, Summer Hill Campus

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**TRINITY GRAMMAR SCHOOL**

Traffic Management SUMMER HILL CAMPUS

FOR THE SAFETY OF OUR BOYS AND THE BROADER TRINITY COMMUNITY

Click here to view information on Traffic Management
CAS 2 DAY CRICKET vs KNOX

Due to the wet weather during last week, only two matches were able to be played on Saturday. The rest were washed out.

1ST XI
Trinity 4-314 drew with Knox 9-185

52 n.o. taking the total to 4/314 before declaring. Spearhead Joshua Weston (12He) 3-17 struck early, claiming the wicket of the Knox opener much to the joy of the Trinity players. Soon after, Bradley Uglow (10He) 2-22 and Austin Waugh (11St) picked up wickets before Vasi Macmillan (10Ho) claimed a key wicket on the brink of lunch. Leg spinner Matthew Turner (10Ho) 2-26 took a wicket after Joshua Weston removed Knox’s key batsmen and put Trinity in a strong position after Tea. A rain delay affected the playing conditions with Trinity still needing 4 wickets. With the boys eager to get back on the field, play resumed with under an hour left of play. Spinners from both ends allowed Trinity to reach the new ball and hopefully strike, but in the meantime Matthew Turner picked up a key wicket in that period. Joshua Weston was fierce with the new ball, claiming another wicket and looking consistently dangerous throughout his spell. Bradley Uglow also took a wicket but unfortunately, Trinity were left needing one more wicket when the stumps were pulled up at 5pm. A disappointing end to a very positive match from Trinity’s perspective, dominating a strong Knox side. Many positives came out of the game and Trinity will be very determined to take down the competition leaders Cranbrook next week.

Julian Dimas (12Ta) | Captain of Cricket

9A
Knox 258 defeated Trinity 190

Chasing 258 was made an even more difficult task by the wet weather during the week which resulted in a more lively wicket than might normally be expected on TGS 3. Ritvik Dinesh (9Ke) batted with authority on his way to making 80 runs, but a steady flow of wickets at the other end due to some good bowling coupled with poor shot selection meant that the target was unattainable. The 9A side will need to put in a more consistent performance with both the bat and ball this week against Cranbrook if they are to get back to winning ways.

Ian Moran | MIC Cricket

CAS CRICKET 2015-2016
ROUND 4 | ONE DAY GAMES VS CRANBROOK
ROUND 3 | TWO DAY GAMES VS KNOX | SATURDAY 7TH NOVEMBER

<table>
<thead>
<tr>
<th>Team</th>
<th>Opposition</th>
<th>Result</th>
<th>Scores</th>
<th>Outstanding individual performances</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st XI</td>
<td>Knox</td>
<td>Match drawn</td>
<td>TGS 4/314 dec: KGS 9/185</td>
<td>Raghavan Selvaratnam (11La) 40; Mark Dedes (11St) 97; Austin Waugh (11St) 76; Liam Scott (10We) 52 no; Joshua Weston (12He) 3/17</td>
</tr>
<tr>
<td>9A</td>
<td>Knox</td>
<td>Lost on 1st innings</td>
<td>KGS 258; TGS 190</td>
<td>Luke Powell (9Ho) 2/13 and 26; Jordan Gupta (9WJ) 3/38; Ritvik Dinesh (9Ke) 80; Blaise McKee (9Ar) 37</td>
</tr>
</tbody>
</table>

All other matches washed out
Another good turnout for Trinity Athletics Club, with over 35 Trinity boys competing in either the Treloar Shield #4 or the NSW 3000m Championships, with some wonderful performances throughout. Unfortunately the wind didn’t favour the sprinters or javelin throwers.

**Men Open**

- **200m**
  - Luke Borgnolo (12Mu) (17yrs) - 25.15
  - Lachlan Rickards-Tang (12Ho) (17yrs) - 25.85

**Men U20**

- **3000m**
  - Rory Ding (12Sc) (18yrs) - 11.01.48s

**U18 Men**

- **100m Hurdles**
  - Remo Pascale (12Mu) (17yrs) - 11.01.48s

- **200m**
  - Monty Hannaford (11Du) (16yrs) - 24.28s
  - Kordell Payne (11Yo) (16yrs) - 24.69s
  - Brian O’Neill (11Sc) (16yrs) - 24.73s
  - Matthew Stead (11Hi) (16yrs) - 24.76s
  - Remo Pascale (12Mu) (17yrs) - 25.06s
  - Jordan Kery (11WJ) (16 yrs) - 26.14s
  - Andrew O’Dea (11La) (16yrs) - 27.47s

- **800m**
  - Michael Amin (11WH) (16yrs) - 2.11.44

**High Jump**

- Will O’Brien (12WJ) (16yrs) - 1.65m

**Javelin**

- Ben Austin (10Hi) (14yrs) - 33.82m
  - Matthew Teixeira (11Sc) (15yrs) - 28.97m

**U16 Men**

- **100m Hurdles (-3.3) | NO RESULTS**

- Byron Hollingworth Dessent (11Sc) (15yrs)
- Sebastien Moir (11Hi) (15yrs)
- Connor Murphy (9Ta) (14yrs)

*This race is not included in the final results as the hurdles were placed on the track incorrectly and therefore should have been re-run.

- **800m**
  - Kash Powell (10Ar) (15yrs) - 2.09.27s

- **3000m**
  - Jono Batson (10WH) (15yrs) - 9.36.02s
  - Benjamin Bishop (9Hi) (14yrs) - 9.55.16s
  - Tyeson Street (10WJ) (14yrs) - 10.02.68s

**Triple Jump**

- Connor Murphy (9Ta) (14yrs) - 12.17m

**High Jump**

- Connor Murphy (9Ta) (14yrs) - 1.60m

**Shot Put**

- Benjamin Austin (10Hi) (14yrs) - 11.81m

**U14 Men**

- **90m Hurdles**
  - Jonathan Titmarsh (8Du) (13yrs) - 15.11s
  - Finn Murphy (8Ta) (12yrs) - 15.96s

- **200m**
  - Oli White (12yrs) - 29.38s (starting TGS 2016)
  - Jonathan Titmarsh (8Du) (13yrs) - 30.28s

- **3000m**
  - William Cooper (6La) (11yrs) - 11.03.37ss

**Javelin**

- Seamus O’Connor (8Ho) (13yrs) - 32.13s
  - Blake Toohey (8Ke) (13yrs) - 29.09s

**Triple Jump**

- Finn Murphy (8Ta) (12yrs) - 10.87m
  - Jonathan Titmarsh (8Du) (13yrs) - 9.94m
  - Blake Toohey (8Ke) (13yrs) - 9.86m
  - Olly White (12yrs) - 9.12m (starting TGS 2016)

**High Jump**

- Jonathan Titmarsh (8Du) (13yrs) - 1.60m
  - Theo Kidd (6Hi) (12yrs) - 1.60m
  - Finn Murphy (8Ta) (12yrs) - 1.45m
  - Blake Toohey (8Ke) (13yrs) - 1.40m

**Andrew Murphy**

MIC Track and Field and Director of Athletic Development
Most teams bounced back favourably in last weekend’s fixture against Cranbrook following the heavy defeats suffered by Knox two weeks ago. We had 9 winning teams with a 64% win rate. Three teams remain undefeated at this stage of the competition including the 1st IV, the 9A and the 9C.

The 1st IV played yet another home match at the Trinity Tennis Centre and there were many positives in what turned out to be a lopsided contest. The team who are leading the competition were simply too strong in all facets of the game and ran out winners to the tune of 8 sets to love. The first doubles pairing of Dario Kmet (9Ke) and Alex Ibrahim (10Ho) managed to win their opening set for the first time this season with a convincing array of shot making. The other good sign was that they were able to maintain their intensity into the second set, dropping only one game over the duration of both sets. Similarly, the second pairing of Mathew Nedanovski (9Fo) and James McCabe (8St) played to their own level and should be commended for remaining focused at the commencement of the 2nd set which allowed them a handsome win in the end. In the singles component of the match our boys met little resistance from the shell-shocked Cranbrook opposition and ran out convincing winners, conceding only a handful of games. In other good news congratulations must be given to Dario Kmet and James McCabe, who after their morning match for the School were able to qualify for the Nationals, in the qualifying event that was held at Homebush over the remainder of the weekend.

The 2nd IV vicissitudes continued in what has been for them a rocky start to the season. Despite losing 6-2 they played some beautiful tennis. The result could have been much more different if they had managed to win 2 of the tiebreakers that went against them. Their resolve will be tested this weekend when they take on competition front runners Barker College in an away fixture at Clarke Road. Newcomers Brendon Sleiman (11Ta) and Anthony Tsougranis (10Ke) will need to bring a renewed intensity to the match in what will be an intriguing contest. Good luck boys! The remaining Opens teams in the absence of their tutor Mr Kenson Low, were able to record good wins, even though the matches had to be cut short due to time restraints.

10As AND 10Bs

The conditions were oppressive at Dangar Courts this week. During the 10As and Bs fixture the weather only threatened storm like conditions, whereas on court, Cranbrook’s impressive team fashioned a ferocious tornado of tennis which resulted in Trinity’s worst defeat of the season. Alex Scott (10St) offered stubborn resistance with some quite brilliant attacking play, but unfortunately he was eventually was defeated by a strong A1 Cranbrook player. The Trinity teams will be hoping that a home advantage in the next fixture will create some winning momentum.

William Henry | 10As and 10Bs Coach

10Cs AND 10Ds

It was a very tough day for the year 10 C and D Tennis teams over the weekend against Cranbrook.

The 10Cs went down 6 sets to 0, despite a great doubles from Koray Cankurt (10WH) and Athan Koutsogiannis (10Yo), who went down 3-6 in a very close and intense match. Wesley Shields (10Mu) and Annan Lertsunthikul (10La), despite playing some fantastic tennis, went down in their singles against quality opponents.

The 10Cs came away with a win but only just. In the end, as the match couldn’t be decided by sets, the boys won on games...
22-18. This was a great effort against a strong school. Peter Marcos (10Fo) and Hayden Bathurst (10Sc) played a fantastic game of doubles, smashing their opponents 6-0. Well done to Aran Kathir (10WH) for playing a high quality match! Big congratulations to Adam Nazah (10Mu) for moving up from the colours to fill in the D4 spot. He played some great tennis against a strong opponent, going down 3-6. Overall it was a great day for the year 10D Tennis team.

Danielle Calvi | 10Cs and 10Ds Coach

9As AND 9Bs

Both the 9As and 9Bs were victorious against Cranbrook in round 4 of the competition. The 9A team fought hard to maintain their winning streak and were rewarded with a 4 sets to 2 win. Edward Lai (9St) and Jason Wu (9Sc) continued their undefeated doubles winning streak. Unfortunately, Edward Lai had his first taste of defeat in the singles, despite his resilient and tenacious efforts against a very strong Cranbrook opponent. Alexander Valiozis (9Yo) and Justin Sleiman (9Ta) were also disappointed with their close tie break loss. However, Alexander overcame the disappointment of the doubles loss and displayed great confidence and intensity in his singles set to emerge victorious in his singles. Jason Wu and Justin Sleiman also showed tremendous form in their individual sets, securing wins and clinching an overall win of the 9As.

9Bs

The 9Bs had a victorious day with Jonathan Karagiannis (9Hi) and Gregory Aravanis (9We) winning both their singles and doubles. Thomas Spratt (9Mu) and Nicholas Field (9WH) had their debut for the season, following their return from the first Field Studies Camp. Their long absence from the game was not evident when they cinched wins in the doubles, but disappointingly both failed to find their ‘groove’ in their singles matches.

Margaret Hanna | 9As and 9Bs Coach

8As AND 8Bs

As the clouds covered Bellevue Hill, the 8As and Bs were able to escape the afternoon showers with the 8As recording a 4 sets to 2 win and the 8Bs narrowly losing to Cranbrook 2 sets to 4. The doubles pairing of Andrew Peng (8He) and Tom Jin (8Yo) kicked off the day’s play in a tight doubles match that could have gone either way. The seesawing affair captured much of the attention from the spectators present as both teams displayed moments of brilliance and creative play. After a disappointing performance last weekend, Andrew Peng took an aggressive approach to his singles match with powerful serving and clutch volleys, recording a well-deserved 6-4 win. After a slow start, David Kim (8WH) was able to reduce his unforced errors late in his match to keep his undefeated singles run. Special mention must also go to Daniel Skarzynski (8We) for his dominant 6-1 singles win, as he was able to carve up his opponent with his nasty backhand slice and tactical prowess.

The tables were turned in the 8Bs’ fixture with a narrow defeat to a solid Cranbrook outfit. After dropping the B1 doubles early, Alex Mallis (8Sc) and Scott Lee (8St) were able to notch up their first doubles win and level the scores with a comfortable 6-0 win. Although the singles matches didn’t fall our way, special mention should go to Toby Brockhouse (8Ho) for his entertaining match that saw extended baseline rallies and improved serving. Alex Mallis should also be commended on his performance last weekend as he continues to show signs of improvement in all facets of his game, narrowing losing 7-6 (11-9). Best of luck to all the boys this weekend against Barker!

Joseph Fung | 8As and 8Bs Coach
WATER POLO SATURDAY 7TH NOVEMBER

<table>
<thead>
<tr>
<th>Team</th>
<th>Opponent</th>
<th>Score</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st VII</td>
<td>St Aloysius’ College</td>
<td>16 – 10</td>
<td>Loss</td>
</tr>
<tr>
<td>2nd VII</td>
<td>St Aloysius’ College</td>
<td>8 – 5</td>
<td>Loss</td>
</tr>
<tr>
<td>16As</td>
<td>St Aloysius’ College</td>
<td>6 – 5</td>
<td>Win</td>
</tr>
<tr>
<td>16Bs</td>
<td>St Aloysius’ College</td>
<td>5 – 3</td>
<td>Win</td>
</tr>
<tr>
<td>15s</td>
<td>St Aloysius’ College</td>
<td>11 – 4</td>
<td>Win</td>
</tr>
<tr>
<td>14As</td>
<td>St Aloysius’ College</td>
<td>5 – 5</td>
<td>Draw</td>
</tr>
<tr>
<td>14Bs</td>
<td>St Aloysius’ College</td>
<td>13 – 4</td>
<td>Win</td>
</tr>
</tbody>
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16As

The 16As were yet again plagued by injuries but managed to grab another win against a highly competitive team. Our defence was once again the key to our success. With our goal keeper Adam Somboli (10Ta) injured, the boys rotated in this position and performed brilliantly. Jacob Gadiel (10Mu) was outstanding, scoring all 6 goals for the team. Other players were unfortunate with shots narrowly missing or hitting posts. Thank you to Nathan Rohr (10Ho) for stepping up to play this game, enabling his teammates to make decisive moves. Although the score only indicated a one goal difference, Trinity dominated this game and were unfortunate with such a high percentage of shots narrowly missing their mark.

14As

In a tightly fought game our improved defence enabled us to secure a draw. Michael Eid (8Ke) stood out in goal with some great saves. In a pool of much smaller dimensions, it was hard to find space to create scoring opportunities. However, Zac Brown (8Ho) was able to find enough room to score 3 goals.

1STs

St Aloysius’ have a tradition of being recognised as a water polo school and their 2015 / 2016 1st are yet to drop a game. Our 1st VI nevertheless were confident going into the game. The team exchanged goals with Aloysius’ and the game remained tied at half time, but we had suffered heavily on the ejection count through some refereeing calls. The game continued to remain tight with only two goals separating our teams until our Captain of the 1sts, Chris Artemi (12Hi), followed his brother James Artemi (11Hi) to be ejected from the match on 3 majors. This allowed an opportunity for our opponents to secure 4 goals in the last quarter. Our boys demonstrated fighting spirit throughout most of the game, yet will need to work on maintaining this during the final minutes of each game. Congratulations to our goal scorers: Chris Artemi (12Hi), Sam Yip (10 La), and James Artemi (11Hi).

2NDs

What was meant to be a good tough close game didn’t let anyone down. At halftime it was 3-3. All of St Aloysius’ last 3 goals (in the final quarter) were from 5 metre penalties and we had 9 major fouls (the highest before this game was 4). That in itself shows how hard the team played in defence. Congratulations to Matthew Moon (11We) on scoring 3 goals, and birthday boy Noah Thomas (12He) and Lucas Mundy (11Ke), securing a goal each.
The Mathematics Club has initiated a new and unique Journal and Proceedings of Young Archimedes which publishes academic online papers of secondary students in the fields of Mathematics Applications and provides a forum to exchange mathematical ideas, activities, and/or sharing and interpreting high school research. Manuscripts will be reviewed by the Editor, in consultation with the Associate Editors, to decide whether the paper will be considered for publication in the Journal. Issues are scheduled to be published in June and December. An electronic version of each issue is posted to the Trinity Grammar School Mathematics Club web site http://www.trinity.nsw.edu.au/1_senior/spirit_maths.html as a formal publication.

Aims Of This New Initiative:

1. The Journal and Proceedings of Young Archimedes publishes academic online papers of secondary students in the fields of Mathematics Applications.
2. To provide a forum to exchange mathematical ideas, activities, and/or sharing and interpreting high school research.
3. To pioneer a new field of educational endeavour to be the first Mathematics International Journal publication for High Schoolers.
4. All Trinity students who are interested in unique mathematical ideas, activities, and/or sharing interpreting high school research are encouraged to submit a paper. All students completing HSC and/or IB essays or projects with relevance to the fields of Mathematics Applications are highly encouraged to submit a paper for refereeing within the Journal and Proceedings of Young Archimedes.

Outcomes:
1. Issues are scheduled to be published in June and December of each Year.
2. A Maximum of 6 long papers (max 6 pages) or 12 short papers (max 3 pages) for each issue.
3. An electronic version of each issue is posted on the Trinity Grammar School Mathematics Club web site publication.

Enquiries relating to submission and production of articles should refer to the Style Guide (see the link below) or direct any enquiries to Dr Frederick Osman on fosman@trinity.nsw.edu.au

Dr Frederick Osman | MIC Mathematics Club

ANNUAL INTERNAL CHESS COMPETITION

On Friday 6th of November, Trinity conducted its annual internal Chess Competition. The competition consisted of 62 competitors fighting it out to win the competition. The competition was conducted by the Sydney Academy of Chess consisting of 6 rounds in a Swiss Tournament style. It was great to see the enthusiasm between the boys and how some boys were playing better than they would normally do in normal Chess Club.

Congratulations to the winner of this year’s tournament, Selwyn Chang (8Ar) winning all six of his matches, Nam Phu (12Fo) gaining a runners up place with 5 wins and a draw, and Remo Pascale (12Mu) achieving a third place with 5 wins and a loss. I would like to thank the staff and tournament directors for making this competition possible and its running smoothly.

Nam Phu (12Fo) | Chess Captain

NEW INTERNATIONAL JOURNAL AND PROCEEDINGS OF YOUNG ARCHIMEDES

CALL FOR STUDENT PAPERS

The Mathematics Club has initiated a new and unique Journal and Proceedings of Young Archimedes which publishes academic online papers of secondary students in the fields of Mathematics Applications and provides a forum to exchange mathematical ideas, activities, and/or sharing and interpreting high school research.

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Dr Frederick Osman | MIC Mathematics Club
MATHEMATICS CLUB MATTERS

MATHEMATICS CLUB MATTERS COMPETITION

It was pleasing to see there were many submissions to and much interest in the problems in Bulletin V from both Middle School and Senior School boys interested in experiencing Mathematics. Every correct solution will go into the draw for the chance to win a major prize at the end of each term.

Congratulations to last week’s winners, Arvind Kumaraguru (8Mu) and Flynn Innes (10Mu) for having the first correct solutions drawn from the Middle School and Senior School boxes. Would they please see Dr Osman for their weekly winning prize.

The answer for the Middle School Problem was all rows and columns and both diagonals of the “magic square” add up to 34.

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>8</th>
<th>13</th>
<th>12</th>
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<tr>
<td>14</td>
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The answer for the Senior School Problem was it will take 1.2 hours. Complete worked solutions for the Middle School and Senior School problem have been posted outside the Mathematics Department office.

REFLECTIONS FROM THE ONGOING HISTORY OF METROLOGY – why our basic units of measurement keep changing, ever more frequently

The “Mathematics Club” at the School was pleased to organize an enrichment session last week on The ongoing history of metrology—why our basic units of measurement keep changing, ever more frequently by Dr Malcolm Hooper. Now that STEM education is receiving more attention, the history of cross-fertilisation between the areas can give many useful examples and show that learning in depth is well worth the time taken. The talk challenged the students with simple but deeply mathematical questions such as “What is latitude?” and “How long is an arc?” The answers to these questions were described in great detail with resources provided to supplement the students’ understanding of the exact mathematical models of systems using elliptical functions.

Dr Malcolm Hooper is currently a teacher at Normanhurst Boys High School. He was trained as a theoretical chemist at the University of Sydney, doing work in quantum mechanics and statistical mechanics. He often tells students there are three important subjects to study at school. First English, because you will spend the rest of your life talking and writing to other people. More importantly, writing allows you to have an extended conversation with your earlier self, to find and correct errors before they go public, and to structure ideas so they are more persuasive. Second, Mathematics teaches you to think logically. As a written language it allows time for rigorous thinking. Any subject studied in great depth will ultimately require mathematics. He has never studied an area of mathematics that he has not been able to apply to some problem he has met later in life. Third, study whatever you are passionate about.

Dr. Malcolm Hooper spoke on “Metrology—our changing units”. He tried to show that technological challenges provoke many questions that require deep mathematics to find a satisfactory solution. STEM (Science, Technology, Engineering and Mathematics) subjects are highly interdependent. The international system of units will have the kilogram, kelvin, ampere and mole (amount of substance) redefined in 2018.

He started with the metre, already redefined twice in his lifetime, with great improvement in the precision, now down to a fraction of an atom’s diameter. Starting with the original definition of 10,000,000 metres as a quarter of the Earth’s polar circumference and the trigonometric survey from Dunkirk to Barcelona, the challenges were huge. Survey lines tens of kilometres long required powerful telescopes and angles had to be measured to better than a second of arc. The definition of latitude on an oblate spheroid has to be carefully considered, and objects don’t actually fall towards the centre of the Earth. The non-circular shape of the Earth had to be carefully measured and the arc length required elliptical integrals to be calculated. The end standard length definition was replaced by a much better line standard, but improved and clever technology allowed gauge blocks to be the practical standard for making interchangeable parts, and cheap mass production.

The kilogram, ampere, kelvin and mole can now be measured so precisely that isotopically pure samples are required for the measurements. Quantum effects are relied on to measure electrical units, and sometimes limit the measurement, so we are pushing up against nature’s limits.

The Mathematics Club would like to thank Dr Hooper for his outstanding presentation!

THIS WEEK’S PROBLEM FOR BULLETIN VI:

1. Years 7-9: Middle School Problem
due on Monday 16 November 2015

What is the value of T in the following puzzle?

\[ A + B = H \]
\[ H + P = T \]
\[ T + A = F \]
\[ B + P + F = 30 \]
\[ A = 2 \]

Please show working to justify your answer!

2. Years 10-12: Senior School Problem
due on Monday 16 November 2015

There are 4 clocks in a room. One gains a minute every hour. Another loses a minute every hour. One runs backward at normal speed. The fourth always keeps the correct time. At 7:03 today, they all showed the same time, which was correct. When will this happen again? Please show working to justify your answer!

Please place your name and House group with your submission by Monday lunch-time (1.15PM) at the Mathematics Department Office.

Dr Frederick Osman | MIC Mathematics Club
**KEY UAC DATES**

**Thursday 17 December 2015** – ATAR release date  
**Early January 2016** – Universities Information Sessions (Check dates for each Institution)  
**Wednesday 6 January 2016** – Final date to change your preferences for January 20 major offer round  
**Wednesday 20 January 2016** – Main UAC offer round

**UAC Change of Preference FAQs**

1. **What is change of preference?** Change of preference period is from 17 December to 6 January and is the last chance for you to change your list of course preferences now that you have your ATAR result. It’s a time to be realistic about your course preferences and consider your pathway options.

2. **What if I didn’t get the ATAR required from my chosen degree?** Don’t panic. Consider your pathway options, do some research and change your list of preferences to include courses that may have a lower ATAR requirement. Make sure you attend an information session if required at your chosen institution for further information.

3. **How do I change my preference?** Now that you have your ATAR, log in to the UAC website and consider the order of your course preferences. You should only apply for courses you are interested in, motivated to study and believe you can do well at. Also check that you meet the prerequisites and extra requirements of each course on your UAC preference list.

4. **What if I don’t get an offer?** Contact the Universities directly to learn more about some direct entry options, midyear intakes and alternative pathways to tertiary study.

**Year 12 Resume Writing Workshop**

There will be a lunch-time free Resume Writing Workshop held on (Friday 20 November) in the Latham Theatre for any interested Year 12 student. A resume is a summary of background, skills and qualifications document, which can be used to help shape your applications for applying for Cadetships and Scholarships in the near future. To attend, you must complete the Registration form which is placed on the Careers Library Notice Board (next to the library photocopiers)

**Western Sydney University**  
**Course Decision Day:** Mon 4th January, 4.00pm – 8.00pm, Parramatta South Campus, corner of James Ruse Drive and Victoria Road, Rydalmere. Academics from all areas of study will give presentations on courses and be available to speak to attendees one-on-one in the course advising rooms. Information will also be available on admissions, career opportunities, scholarships, and student services.  
http://www.westernsydney.edu.au/future/future_students_home/events_at_uws/course_decision_day

**Western Sydney University**  
**Engineering Frontiers:** Tue 8th December – Wed 9th December, 9.00am – 3.00pm, Building U, 56 Second Ave, Kingswood Campus. A two-day programme that introduces high school students to engineering and its applications. Attendees will have the chance to experience life as a university student and also speak to top engineers who have a passion for their job. http://www.uws.edu.au/scem/school_of_computing_engineering_and_mathematics/events_and_seminars/engineering_frontiers

**The University of Sydney:**  
**Info Day**  
Tuesday 5th January, Camperdown. An opportunity to chat with current students and staff about study options before finalizing ATAR preferences for the main round offers. http://sydney.edu.au/study/admissions/events-for-future-students.html

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**The University of Sydney**  
**Bachelor of Science (Advanced) and Doctor of Dental Medicine:** In the new Bachelor of Science (Advanced) and Doctor of Dental Medicine, students spend the first three years studying advanced science courses of their choice, followed by the four year Doctor of Dental Medicine which qualifies graduates to practice as a dentist.  

**University of Technology Sydney (UTS)**  
**New Bachelor of Science Analytics:** The new Bachelor of Science Analytics focuses on the analytical skills and technical knowledge that underpin the sophisticated data tools on which key aspects of business activity rely. Students study key areas of business activity and develop a broad range of mathematical, statistical, computational and data management skills.  
http://www.uts.edu.au/future-students/find-a-course/courses/c10384

**UTS Sydney Summer School**  
The University of Sydney’s intensive Summer School is offered over three sessions from December to February. Students may study as a non-award student and get a taste of the diverse academic offerings and even get a head start on their degree if they’ve just completed Year 12.  
http://sydney.edu.au/summer/

**UTS Summer School Programme:** The Summer School Programme offers Year 11 students from UTS partner schools the chance to attend intensive two-week summer schools in subject areas like filmmaking, engineering, information technology, design, nursing and midwifery, and science.  
Contact: 9514 7821 or Michael.Ormsby@uts.edu.au  
http://www.uts.edu.au/future-students/teachers/essential-information/uuni-school-programs/summer-school-program

**UTS HSC Tutorial Scheme:** The HSC Tutorial Scheme provides school-based tutorial sessions at UTS targeted schools in South Western Sydney. This tutorial support assists Year 11 and 12 students to improve their academic performance and broaden their educational aspirations.  
Contact: 9514 7821 or Michael.Ormsby@uts.edu.au  

**UTS Info Days**  
> Fri 18th December, 10.00am – 3.00pm, UTS City Campus, Broadway  
> Tue 5th January, 10.00am – 3.00pm, UTS City Campus, Broadway

An opportunity to speak with university representatives about course options for 2016.  
http://www.uts.edu.au/future-students/undergraduate/essential-information/events-and-info-sessions/uts-info-days

**UTS Sydney**  
**Year 11 Law Discovery Day**  
> Thu 19th November and Thu 26th November, 9.00am – 2.00pm, UTS Faculty of Law, Cnr of Quay St and Ultimo Rd, Haymarket  
> The day will include workshops and hands-on practical activities, as well as an opportunity to listen to professionals, academics and current students speak about all facets of law.  
> Thu 19th November:  
ACU

New Undergraduate Double Degrees: ACU Health Sciences is introducing a number of new double degrees in 2016:

- Bachelor of Teaching/Bachelor of Exercise Science (Brisbane, Canberra, Melbourne, Strathfield)
- Bachelor of Laws/Bachelor of Biomedical Science (Melbourne, North Sydney)
- Bachelor of Biomedical Science/Bachelor of Business Administration (Brisbane, Melbourne, North Sydney)
- Bachelor of Biomedical Science/Bachelor of Applied Public Health (Brisbane, Melbourne, North Sydney and Strathfield).

These degrees are still subject to final approval. Website: http://www.acu.edu.au/about_acu/faculties_institutes_and_centres/health_sciences/course_updates/new_undergrad_double_degrees_for_2016

ACU Elite Athlete Programme

ACU’s Elite Athlete Programme has been established to support future and current students who have maintained a record of excellence in sporting performance throughout their studies and wish to pursue a sporting career alongside an academic one. Future students deemed to be Elite Athletes will be eligible to receive up to five bonus points towards an entry score and greater flexibility when studying at ACU. http://www.acu.edu.au/study_at_acu/alternative_entry/elite_athlete_program#1

University of New South Wales (UNSW)

New Dual Degree Civil Engineering and Surveying: From semester 1 2016, students will be able to study a five year combined Bachelor of Civil Engineering and Bachelor of Surveying degree. Graduating students will be eligible for accreditation as a professional engineer and a professional surveyor. http://www.engineering.unsw.edu.au/civil-engineering/news/brand-new-dual-degree-civil-engineering-surveying-uac-code-425402

UNSW

Engineering High School Information Day: An opportunity for senior high school students to sample several fields of engineering through interesting and stimulating hands-on activities. By attending, students will gain a better understanding of the extensive range of opportunities that a career in engineering would open to them. https://www.futurestudents.unsw.edu.au/engineering-high-school-information-day

UNSW

Art and Design Undergraduate Guide 2016


UNSW

HSC Plus: HSC Plus is designed to reward strong performances in HSC subjects relevant to UNSW undergraduate degrees. Domestic students who complete the HSC and perform well in subjects that are relevant to their preferred UNSW degree may be awarded a maximum of 5 bonus points. http://www.unsw.edu.au/domestic-undergraduate/hsc-plus

Aviation Students ‘Qantas Link Approved’; UNSW Aviation students can now apply to become ‘QantasLink Approved’ during their degree. As a result, students will be observed and mentored by experienced QantasLink pilots and, if successful, will be considered by QantasLink straight after graduation. http://www.aviation.unsw.edu.au/news/2015/QantasLinkCollaboration.html

ACU

Make the Right Choice – North Sydney and Strathfield Campuses: Tuesday 5 January 2015, 9am-1pm If students are still exploring study options for 2016 and need advice, academic and admissions experts will be available to answer questions at ACU’s Make the Right Choice events. An information session on the updated ACU education course prerequisites for 2016 will be included. Visit www.acu.edu.au/apply2016

Macquarie University

New Pathways into Law: Students who will have been admitted to a non-law degree at Macquarie University in 2016 will be able to apply for admission to the Pre-Law Pathway prior to their first session of studies. To gain entry into the Pre-Law Pathway prospective students are required to have completed the HSC in 2015, achieved an ATAR above 93, and be accepted into an approved degree at Macquarie. http://law.mq.edu.au/future_students/undergraduate_law_programs/new_pathways_into_law/

ANU

Engineering and Computer Science Special Admission Scheme: Applications close: Fri 4th December. Students who are not expecting to achieve the required ATAR for entry into the Bachelor of Engineering, Bachelor of Advanced Computing, or Bachelor of Software Engineering, may apply for entry through the special admission scheme. To qualify for the special admissions scheme, applicants are required to demonstrate excellent academic performance in disciplines relevant to the study of engineering and/or computer science, leadership and community service, as well as strong commitment to engineering and/or computing. Applicants who wish to be considered under the Special Admission Scheme will need to submit an online application. https://cecs.anu.edu.au/future_students/sas

Australian Defence Force Academy (ADFA)

Applications: It is advised that students wishing to study at ADFA apply in Year 11 as it is a competitive selection process which may take up to 12 months to complete. Gaining entry to ADFA is a dual process requiring students to apply directly to the Australian Defence Force while also applying concurrently to UNSW ADFA through UAC. An offer to study at ADFA is conditional on meeting the academic requirements of UNSW as well as the mental and physical requirements of the Australian Defence Force. http://www.defencejobs.gov.au/education/adfa/howToApply/admissionProcess.aspx

UOW College

Open Undergraduate Courses: Most Open Universities undergraduate first level units have no entry requirements. Students can start in any one of their four study periods and graduates are awarded the same degree as their on-campus counterparts.

Open Universities offers undergraduate courses in Arts and Humanities, Business, Education, Health, IT, Law and Justice, Science and Engineering. To view the extensive range of flexible courses, visit: http://www.open.edu.au/courses/undergraduate/

EducationUSA
This U.S. Government Website provides advice to students interested in applying to U.S. colleges and universities. Information includes how to apply, testing, financial aid, visas, and more. The U.S. Consulate General in Sydney has an EducationUSA Centre, and students, parents and career advisers can make appointments to visit the centre. https://www.educationusa.info/australia

Other News
ALTERNATIVE PATHWAYS

Bradman Scholarship
Applications close on Sun 28th February 2016: Each year the Bradman Foundation offers a $5,000 per annum scholarship to one Australian student commencing university. The scholarship is chosen based on a blend of academic, sporting (cricket), personal and social skills which best fulfill the purpose of the scholarship. Contact: (02) 4862 1247 or info@bradman.com.au http://www.bradman.com.au/bradman-scholarship/

Advanced Diploma in Rudolf Steiner Education: Applications are open for the Advanced Diploma in Rudolf Steiner Education. This 2 year Diploma provides a pathway into the B.Ed at many universities. It provides Advanced Standing up to 2 years study and offers a unique approach to teacher training. The programme is full time, rich in the arts, philosophy and educational practice. http://www.sydneyrudolfsteinercollege.com phone 02 9216 4001

UNSW Prep (17-19) - A pathway into UNSW Australia: An enabling course open to your students who qualify for UNSW ACCESS and receive an ATAR of 50 or over, or Indigenous students applying through Nura Gili. Students learn core academic skills in smaller classes; complete subjects fee free enabling course open to your students who qualify for UNSW Prep (17-19) - A pathway into UNSW Australia: An enabling course open to your students who qualify for UNSW ACCESS and receive an ATAR of 50 or over, or Indigenous students applying through Nura Gili. Students learn core academic skills in smaller classes; complete subjects fee free

UMAT Preparation 2016 Session 2
> Lesson 1: Logical Reasoning and Problem Solving: Sun 25th October, 9.30am – 12.30pm
> Lesson 2: Understanding People: Sun 1st November, 9.30am – 12.30pm
> Lesson 3: Non-verbal Reasoning: Sun 8th November, 9.30am – 12.30pm
> Lesson 4: Mock Exam: Sun 15th November, 9.30am – 12.30pm

Dr Frederick Osman | Director of Vocational Education and RTO Manager (Careers Education)

UNSW Art & Design Portfolio Entry Workshops 16 & 18 November: Join a free portfolio entry workshop in November to learn about how to prepare and develop your portfolio. Meet assessment staff who will provide personal feedback, guide you through how to produce the best possible portfolio and offer step-by-step advice about how to submit. For session information & registration: https://www.artdesign.unsw.edu.au/whats-on/events/portfolio-entry-workshops-0

Making university dreams a reality for UTS:INSEARCH students UTS:INSEARCH would like to thank the continued support of the NSW and ACT Career Advisers. Thanks to your efforts, we are proud to report that over 90% of UTS:INSEARCH diploma graduates are eligible for direct entry into 2nd year of a UTS degree. Together, we are making the dream of university a reality for thousands of students, every year. To arrange a school visit, please call 02 9218 4989.

Turning Point Consulting
Positive Career Skills Workshops
Mon 14th December, 9.00am – 12.00pm

Mon 21st December, 9.00am – 12.00pm
Hear from hiring professionals within recruitment and business; learn what is important in resumes and how the interview process works. Attendees can also have their resumes reviewed by a hiring professional. http://www.turningpointconsulting.com.au/student-events-calendar/

Macleay College
Open Day: Sat 16th January, 9.30am, 28 Foveaux St, Surry Hills Learn about the courses available, hear from students and graduates about their compulsory Internship Programme, view the campus, and listen to guest lecturers who work in the industry. https://macleay.edu.au/campaign/open-day-january-16

JMC Academy
Open Day: Thu 21st January, Harris Street, Ultimo
Speak to staff and students, get an overview of courses, and take a campus tour. Contact: 02 9241 8899 http://www.jmccademy.edu.au/events/open-days/register-for-our-next-open-day-2016-(1)

Open Undergraduate Australia
Career Advice and Online Readiness Tools: Open Universities Australia has two online services to assist future students with their study decisions. The career advice tool aims to help students in their career choice. Search options and based on job type and industry type. http://www.open.edu.au/careers

Matrix Education

Dr Frederick Osman | Director of Vocational Education and RTO Manager (Careers Education)

If you have a passion for preserves - even if it's just on toast – WE NEED YOU! Come join the jam, help the sweet team that's Leckie's Larder. Whether you can make, label, or help sell on the day.

Donations of produce such as lemons, green apples, tomatoes, onions, white and brown sugar or eggs greatly appreciated. Or if you have a tree in your backyard that's overflowing with fruit (lemon, cumquat) – our Leckie's Larder ladies will happily work some magic and whip up a delightful preserve, just send them in.

Used clean jars are especially welcome in all shapes and sizes.

For more information and offers of support and donations please contact Juliette Bakunowicz on mobile 0418 488 123 or email juliettebakunowicz@gmail.com
THIS WEEK...

Friday, 13 November 2015

IB - Examinations continue (TR)
7:30 am ~ 5:00 pm MSHM Parent Meetings - Year 7, 2016 (DH)
2:00 pm Cricket - 2 Day - Round 4 - Trinity vs Cranbrook (Day 1)
6:00 pm Swimming & Diving - CAS Invitation (SOPAC)
6:45 pm ~ 9:30 pm Boarders’ Excursion to Sky Zone (Alexandria)

Saturday, 14 November 2015

CAS - Round 5 - Barker vs Trinity
Cricket - 2 Day - Round 4 - Trinity vs Cranbrook (Day 2)

Monday, 16 November 2015

IB - Examinations continue (TR)
8:30 am ~ 3:35 pm Peer Support Leadership Training (LT)
6:00 pm ~ 7:30 pm Japan Rugby Tour Parent Information Session (LT)

Tuesday, 17 November 2015

IB - Examinations continue (TR)
6:00 pm ~ 7:00 pm HSC & IB Book Club Night (Library)

Wednesday, 18 November 2015

IB - Examinations continue (TR)
1:50 pm Year 7 vs Junior/Prep 1st XI & 1st V (SC, Oval No. 2, Afternoon Tea DH)
7:00 pm Battle of the Bands (AH)

Thursday, 19 November 2015

IB - Examinations continue (TR)
5:00 pm Diving - CAS Invitation (Trinity) (TBC)

Friday, 20 November 2015

Cricket - 2 Day - Round 5 - Barker vs Trinity (Day 1)
IB - Examinations continue (TR)
8:30 am Years Pre K-7, 2016 - Orientation Day (AH, TR & LT)

Milton Cujes | Head Master | Friday 13 November 2015

CANTEEN | CAFETERIA ROSTER

WEEK 7 | 16th November - 20th November

Monday Shohat, Y; Varvaris, D.
Tuesday Ewida, G.
Wednesday Arraj, T; Griffith, K; Kostoglou, O; Moore, D; Morfis, S.
Thursday Balkwell, B.
Friday Gavin, J; Moularas, H; Sestan, A.

WEEK 8 | 23rd November - 27th November

Monday Ping, L; Plummer, S.
Tuesday
Wednesday Ewida, G; Kostoglou, O; Moore, D.
Thursday Lentin, D.
Friday Parekh, M; Sachdev, R.