NAPLAN RESULTS

This week, results of the NAPLAN tests undertaken by boys in Years 7 and 9 earlier in the year arrived at the School. Parents are alerted to the fact that these results were given to boys on Friday 21st August to take home to their parents. Please ensure that you obtain the results from your son. Students absent on Friday will have their results mailed home. Duplicate copies will also be posted out to non-custodial parents where this is indicated in the School’s database. Over the coming weeks a careful and thorough analysis of the NAPLAN results will occur, as is done each year. If you wish to discuss your son’s NAPLAN’s results, please don’t hesitate to contact his Middle School Housemaster, the Master of the Middle School or the Academic Dean.
Students’ engagement with content delivered in the PDHPE classroom plays a critical role in the formation of socially responsible citizens who are well-versed in the basics of health and physical well-being. Two recent amendments point to the PDHPE syllabus being a barometer for current social concerns and issues and, as such, it is perhaps the most socially relevant subject taught in schools today.

Driver and road user distraction has been added to the K-6 and Years 7-10 modules dealing with road safety and most recently, on August 7th 2015, the Board of Studies, Teaching and Educational Standards (BOSTES) announced the inclusion of content related to domestic violence and the explicit teaching relevant to this pressing social issue.

In response to the increasing role of distraction as a cause of injury and accidents in all categories of road users, the K–6 and Years 7–10 PDHPE syllabuses have also recently been amended to support the development of students’ knowledge and understanding of the causes and impacts of road user distraction.

More specifically, it defines risk factors and behaviours in a range of road environments and situations, e.g. road user distractions such as handheld devices and headphones; responsible driver and passenger behaviour, e.g. minimising and removing driver distractions such as handheld and hands-free phones and other electronic devices; loud music and a number of passengers skills and attitudes that support safe road behaviour. Trinity Grammar has already adopted these amendments in PDHPE in 2014 in the Year 8 Risky Business module and the Year 10 Drive to Survive unit.

Organisations and advocates working in the field of domestic and family violence including, 2015 Australian of the Year, Rosie Batty, herself a victim of an horrific act of family violence, have campaigned for schools to play a greater role in educating students about family violence. The statistics related to the extent of family and domestic violence are extremely confronting. We have a responsibility, however, to address this most serious of issues in a safe learning environment where the students can learn the value of gender equality and healthy relationships.

The most recent revision to the syllabus aligns with existing content about abuse and power in relationships within the Self and Relationships Strand in both Stage 4 (Years. 7 and 8) and Stage 5 (Years. 9 and 10).

The amendments in Stage 4 include: “Recognizing forms of abuse and neglect that can affect children and families with the inclusion of physical, emotional and sexual abuse, domestic violence (now including the word "violence"). Students will examine and clarify personal values; challenge negative community attitudes related to diversity and investigate the impact of discrimination, harassment, violence and vilification.”

In Stage 5 students will examine power, conflict and cooperation in different settings including family and domestic violence, friendship groups, in the school context, family, home (domestic violence now included), and workplace. They will also “identify situations such as in a crowd, at a party, going out with others in cars, at work and at home in which forms of abuse may occur and suggest possible protective strategies…”

Domestic Violence NSW will run workshops and provide professional development to teachers at the annual PDHPE conference in October this year. Two staff members from the PDHPE faculty will attend this conference and then help facilitate the inclusion of this topic into current teaching programmes at Trinity Grammar.

Education programmes in schools have consistently been identified as a key strategy for reducing violence in society. Openly and honestly tackling the issue of domestic and family violence in the PDHPE classroom is a positive move in the right direction.

Andrew Simos | Head of PDHPE

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
SCIENCE COMPETITION AWARDS 2015

Coinciding with the start of National Science Week, the outstanding performances of some young Trinity scientists in two science competitions last term were acknowledged on Quad Assembly this week.

Students from Years 7-12 participated in two science competitions with some superb results:

> the ICAS International Science Competition run by the University of NSW
> The Big Science Competition run by Australian Science Innovations, a competition which is also a potential first step to participation in the Science Olympiads

In the ICAS Competition (attempted by all students in Years 7-10, and science students in Year 11), we achieved 12 High Distinctions (10 last year), 78 Distinctions and 183 Credits. In the Big Science Competition, from the 77 keen science students who participated gained 13 High Distinctions, 23 Distinctions and 30 Credits. These wonderful results are a great credit to those students who achieved them.

High Distinctions in the ICAS Science Competition were achieved by:

> Michael Lin (7Fo)
> Selwyn Chang (7Ar)
> Jee Hawn Kim (7Ta)
> Matthew Turner (8Ho)
> Michael Ellis (10Ta)
> Brendan Sleiman (10Ta)
> Neil Lu (10Yo)
> Victor Wu (11Mu)

High Distinctions in the Big Science Competition were achieved by:

> Ben Hutchinson (8Ar)
> Alexander Leckie (8Ho)
> Jonno Batson (9WH)
> Joseph Wang (9WJ)
> Salil Dutt Barret (10Ta)
> Andrew Jamieson-Grigg (10Ho)
> Julian Kasch (10WH)
> Kieren Pearson (10Ta)
> Jared Phillis (11Mu)

And finally, four potential future Eureka Prizewinners achieved High Distinctions in both Competitions

> Daniel Fang (8Ta)
> Justin Kim (9He)
> Tallis Coman (9Yo)
> Benjamin Davies (10WJ)

Science will continue to make a significant impact on all our lives in the decades ahead, and I am sure that these talented and dedicated young men will make valuable contributions in science in the future. Warm congratulations on these fine achievements.

Dr Timothy Barden | Dean of Science

BOARDING HOUSE
OPEN DAY
SATURDAY 24TH OCTOBER 2015
FROM 12:30PM TO 1:00PM
61-63 PROSPECT ROAD SUMMER HILL

Full, Weekly and Day Boarding vacancies for 2016 are now available
Experience what Boarding at Trinity can offer your son.

Contact Ms Mandy Treweeke, Enrolment Officer to register for the Open Day phone 9581 6029 email mtreweeke@trinity.nsw.edu.au
TRINITY QUILTERS

The next meeting of the Trinity Quilters will occur on Friday the 28th August in the Bosch Room at Summer Hill. We are a group of mothers and past mothers from the Preparatory School, Junior School and the Senior School, and meet usually on the fourth Friday of the month. We have beginners and experienced quilters who gladly share their knowledge, in classes held during the year.

We also make quilts for members of the Trinity School family who may be suffering from serious illness.

If you are keen to join the group, please ring Helena at reception (9581 6000) and leave your details we will contact you with more information.

Susie Cujes

NEWS FROM
THE ARTHUR HOLT
LIBRARY

CHILDREN’S BOOK WEEK
22-28 AUGUST

United Through Books. That was the first Children’s Book Week theme in 1945. There has been a new theme every year since. Some have been inspirational – Fuel Your Mind, Weave the Book Web, Books for Life. Some have featured puns – Books Have it Covered, Go Under Cover, Books are Common Wealth. Some have been difficult to say – Books Bridge Gaps, Bookaleidoscope. This year, Books Light up Our World commemorates the event’s 70th Anniversary. No matter what the theme, one thing remains constant. Children’s Book Week encourages young people to engage with literature and celebrate reading, something we embrace every day through our work with students and teachers alike. So please visit the Library during Book Week and borrow some books to light up your world!

CLICKVIEW VIDEOS ON YOUR PHONE!

ClickView is the software we use to store, manage and deliver the School’s video library. ClickView Online is a browser based video delivery system that works with any device. It allows teachers and students access over the internet to our collection of educational programs, documentaries and films.

To watch videos online, go to ClickView Online and sign on using your school credentials. To use your iOS or Android device to watch videos in our collection, download the free app below.

ClickView for Android or ClickView for IOS

Tabatha Paterson | Teacher Librarian

CERTIFICATE II - LEADERSHIP THROUGH CADETS

Trinity Grammar School is embarking on its second year to extend and reward the leadership qualities of those students enrolled in Cadets. This course, owned and delivered by Trinity Grammar School, aims to accredit students at Secondary School with a nationally recognised qualification in Leadership which is delivered from Year 8 to Year 10. The intent is to gain this qualification while a member of the Australian Army Cadets. The course will begin in Year 8 in the new academic year. This new course, available only to Cadets and taught and assessed as a supplement to normal Cadet activities, will allow boys to receive a formal qualification for the leadership skills they have developed. The course will not replace the existing Cadet Promotion or Adventure Training Award (ATA) courses. To achieve the qualification, Certificate II in Leadership through Cadets, the students must demonstrate competency in:

> 20 Units of competence, comprising
> 12 Core Units; and
> 8 Elective Units
YEAR 10 (ADVANCED LEADERSHIP)
UNITS OF COMPETENCY

Core Units

<table>
<thead>
<tr>
<th>Unit Code</th>
<th>Unit Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TGSCLP214A</td>
<td>Demonstrate individual leadership practices in a School Cadet environment</td>
</tr>
<tr>
<td>TGSQDP215A</td>
<td>Apply basic Quick Decision - making practices in a variety of settings</td>
</tr>
<tr>
<td>TGSVOP216A</td>
<td>Perform written and verbal orders for a patrol</td>
</tr>
<tr>
<td>TGSDCS217A</td>
<td>Demonstrate the use of the School data communication system</td>
</tr>
<tr>
<td>TGSDCP218A</td>
<td>Demonstrate the effective use of communication proformas</td>
</tr>
<tr>
<td>TGSWHS219A</td>
<td>Apply reporting procedures for Workplace, Health and Safety issues in a Cadet environment</td>
</tr>
</tbody>
</table>

Elective Units

<table>
<thead>
<tr>
<th>Unit Code</th>
<th>Unit Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TGSFDP220A</td>
<td>Display Section formations during a patrol</td>
</tr>
</tbody>
</table>

The skills associated with leadership are highly valued in the workplace and in society generally. Leadership through Cadets is designed to enable participants to acquire a range of technical, practical, personal and organisational skills associated with leadership. Potentially the course will afford them a real advantage in the competitive quest for scholarships and jobs, but more importantly will equip them with vital life skills.

The immediate benefits of undertaking Leadership through Cadets include the following:

1. A nationally recognised award
2. Possible advantage in consideration for Senior Command appointments in the Cadet Unit (Year 11).

As they work through the course, boys may obtain the following qualifications:

> Year 8
   Working towards a Statement of Attainment

> Year 9
   Statement of Attainment in Leadership through Cadets

> Year 10
   Certificate II in Leadership through Cadets.

An Information Evening has been organised for Year 7 parents and their sons to find out further details regarding this course. This will be held on Friday 28th August 2015 in the Latham Theatre (LT) beginning at 6pm. If you have any questions about the School's new and exciting initiative in Leadership through Cadets, please attend the evening or contact Mr Stefanovic (Master in Charge).

Dr Frederick Osman
Director of Vocational Education and RTO Manager
NEXT GEN.
AN EVENING OF JAZZ

TGS BIG BAND
14TH SEPTEMBER 2015

WITH SPECIAL GUEST BAND TRIOFLIGHT
FEATURING: NICK SOUTHCOTT, DAVE GOODMAN AND MAX ALDUCA
Parents who collect their sons from SOPAC will have to park in one of the car parks while waiting for their sons to leave the Centre in the evening, as there will not be any room for cars to park outside of the Athletics Centre.

Parents will not be able to collect their sons before the end of the CAS Track and Field Championships as it is grossly discourteous for boys to leave before the end of the meeting. All boys should support their School Track and Field Team right to the very end.

Boys must wear their winter uniform including coats to the Championships. Boys should also be ready to be actively involved in cheering, thus supporting our Athletes. All i-pods, ipads, MP3’s, tennis balls, reading material, etc. will be confiscated. Boys may take their mobile phones but must ensure they are switched off during the Championships. The phones may be kept in the student’s pocket.

Boys will be able to purchase food and drink at the Centre. However, it would be an advantage to bring food and drink, as the lines at the kiosk can be very long. No school bags should be taken to the Championships and definitely no glass bottles.

If there is a legitimate reason for their son not to attend the Championships, parents are encouraged to write a letter to the Master of the Middle School (Yr 9) or Master of the Senior School (Yrs 10 & 11) requesting permission. Boys in Years 9 to 11 who are unable to attend the Championships will be expected to attend and give support to an alternate non-compulsory School event at a later date.

Bradley Wirth | Director of Campus Administration

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INVITATION

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

- **MIDDLE SCHOOL SPEECH DAY, 2015**
  on Thursday, 8th October at 10.30am at Sydney Town Hall

- **SENIOR SCHOOL SPEECH DAY, 2015**
  on Thursday, 8th October at 2.15pm at Sydney Town Hall. Mr Richard Pegg, Chairman of Council, will preside

- **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

www.trinity.nsw.edu.au
Last Saturday’s Trinity and St Aloysius’ Invitation was a very successful start to the Track and Field season for the Trinity team. There were some outstanding performances both on the track and in the field. With only three more weeks of competition before the final team is selected, it is important that I remind all athletes that every performance counts, as does the importance of continuing to challenge your athletic potential at every training session and every Meet.

A big thank you to all the staff, students and parents who helped make Saturday such a well-run event. A special mention also to our Sportsmaster, Hugo Engele, for the outstanding support he gave to ensure everything was well-organised.

Five new School records were established at Saturday’s Meet or at last Tuesday’s School Championships at Illawong.

> **Ethan Bateman (7WJ)** in the 13 Years High Jump - 1.74m
> **Alexander Kolesnikoff (9Ho)** in the 15 Years Discus - 57.41m and Shot Put - 17.50m
> **Anthony Nguyen (12Hi)** in the Open Discus - 41.55m
> **Oliver Hoare (12St)** in the Open 3000m - 8min 39.19s

**Other notable performances include:**

### 13 Years

- **Ethan Brouw (7Ta)** 800m – 2.14.05s
- **Logan Kaye (8Ho)** 1500m – 4.45.20s
- **Jack Birmingham (8Mu)** Javelin – 31.80m
- **Miles Amatosero (7Hi)** Discus – 34.30m and Shot 10.90m
- **James Park (7Yo)** 100m – 12.83s

### 14 Years

- **Ben Bishop (8Hi)** 1500m – 4.36.54s
- **Angus Clark (9Wh)** High Jump – 1.80m
- **Connor Murphy (8Ta)** 400m – 59.13s
- **Luke Cunningham (9He)** Discus – 42.20m
Trinity Grammar School
Sports Physiotherapy Clinic

The Trinity Grammar Sports Physiotherapy Clinic, is now operating in the rooms below the Pastoral Care Centre. It is open Wednesday mornings from 7.00am-10.00am and is run by Mr Tom Lombardo (‘01), an Old Boy of the School. Having worked extensively with elite and professional athletes at the highest levels, Tom has a particular interest and expertise in the highly specialised area of adolescent sporting injury diagnosis and management.

With established links to an extensive network of quality sports medicine physicians and by placing a strong emphasis on specialist injury prevention, treatment and rehabilitation, the TGS Sports Physiotherapy clinic will ensure reliable and timely assessment and management of your son’s injuries within the confines of the school grounds.

Consultations at the clinic are for Trinity students only and can be booked online (the link can be accessed from the School’s home web page: www.trinity.nsw.edu.au). The clinic will offer competitive rates and allow for private health insurance rebates. The cost of the initial consultation of a new injury is $78 and any subsequent consultations will be charged at $68 per service.

15 Years
> Calvin Li (9Ar) Long Jump – 6.33m
> Byron Hollingworth-Dessent (10Sc) 100m – 11.21s and 200m – 22.87s
> Sebastien Moir (10Hi) 100m – 11.23ss and 400m – 51.60s
> Leland Hui (9Fo) 800m – 2.09.94s
> Kash Powell (9Ar) 1500m – 4.30.79s
> Bertie Swann (10Ar) 100mHurdles – 13.79s

16 Years
> Luca Hatton-Ward (11Sc) Long Jump 5.91m
> Julius Truong (11St) 200m - 23.58s and 100m - 11.41s

17 Years
> Adam Kesbah (12Ke) High Jump 1.81m
> Carl Coorey-Ewings (11WJ) 200m – 22.75s

Open
> Zachary Galluzzo (12Ho) Javelin – 42.48m
> Rohan Browning (12Du) 400m – 50.30s
> Jordan Martenstyn (12Hi) 1500m – 4.21.31s

Photos from each Meet are available on the Track and Field page on the School’s website, and are usually uploaded on the Monday following the Meet. You can access last Saturday’s photos by clicking here.

The NSW All Schools will be held at SOPAC between 8th to 11th October. It is the biggest individual athletics competition in Australia. There are no qualifying standards or progressions to this meet. Athletes attempting to qualify for Australian All Schools should note that all athletes wishing to be selected in the NSW team must compete at NSW All Schools. Athletes may submit their entry via the online system or by downloading the entry form and posting it to Athletics NSW. Both formats are accessed via the Athletics NSW website at www.nswathletics.org.au. Entry forms can also be obtained from me. Trinity athletes entering the NSW All Schools need to complete their own individual entry forms. Athletes entering NSW All Schools need to notify me so I can ensure coaching staff are available for assistance during the competition.

This coming weekend’s Meet is the Barker Invitation, again at SOPAC. The programme for the Meet is the same as last week and appears on the School’s website. A voluntary bus will be leaving the Victoria Street Gates Saturday morning at 8:00am and will depart the venue at 2.45pm, returning to School at 3.15pm.

Andrew Murphy
Director of Athletic Development and MIC Track and Field

www.trinity.nsw.edu.au
The Entertainment™ Membership is the perfect dining guide, filled with valuable offers from many of Sydney’s finest restaurants and cafés.

Available for just $70, the 2015 | 2016 Sydney and Sydney North Entertainment™ Membership is filled with more than one hundred 25% off and 2-for-1 offers from businesses in the Southern Sydney and the Inner West, along with hundreds of others in the CBD, suburban and regional areas, all valid until 1 June 2016.

Contact us or order your new Entertainment™ Membership online now!

Plus, from every Entertainment Membership we sell, $14 goes towards our fundraising!

George Ayoub | Director of Development
email gayoub@trinity.nsw.edu.au mobile 0414 915 910
phone 02 9581 6000 fax 02 9799 9449

ORDER HERE NOW

NEXT CONCERT

SIBO BANGOURA & FRIENDS

Wednesday 2 September, 7.30pm
Orchestra Room, Roderick West School of Music

Australia has a new West African band capable of holding its own on the world stage... THE AUSTRALIAN

Music courses deep in the veins of Sibo Bangoura, one of the most renowned African kora and djembe players in Australia today. Born into a music family (Griot) in Guinea, he is tasked with ensuring that traditional storytelling and music are passed on to the next generation.

For this concert, he will be joined by members of his band Keyim Ba, including celebrated Senegalese percussionist Yacoumbaye on doun doun, sabar and congas; Jon Pease on lead guitar accompanied by the funky bass lines of Tina Harris; and dancer Rachel Bangoura completing the picture.

Expect an evening brimming with rich melody, traditional song and dance and high-energy percussion – a true musical journey through West Africa!

Tickets
$30 full / $20 concession and seniors
$75 family of four
Trinity students and Society of the Arts members FREE

Book online click here to book online now

Concert duration approx. 70 mins (no interval)

Light refreshments will be served after the concert, when you will also have the opportunity to meet the musicians.

Proudly presented by Trinity Grammar School’s Society of the Arts as part of its 2015 Concert Series. For 2016 subscription enquiries, please contact Catherine Benz, Convenor, cbenz@trinity.nsw.edu.au
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, Jordan Chen (9We) and Calvin Fong (11Ta) 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 19 years old. The answer for the Senior School Problem was $96. Complete worked solutions for the Middle School and Senior School problem have been posted outside the Mathematics Department office.

A MANIFESTO OF MATHEMATICS EVENTS

The “Mathematics Club” at the School was pleased to organize two signature events last week in celebrating the inaugural Sydney Science Festival on (1) Pythagorean Triples and (2) Einstein’s Universe with the Modern Perspectives. Our first event featured Shane Scott in discussing the interesting phenomena of Pythagorean Triples. From early secondary school we are introduced to Pythagoras’ Theorem – the square of the hypotenuse of a right triangle is equal to the sum of the squares of the two adjacent sides, and the associated formula. In school textbooks it has been used to find the length of a side of a triangle. A little part of the textbook is put aside to mention the converse of the theorem; that is if you have a triangle and the sum of the squares of two adjacent sides is equal to the square of the longest side then you must have a right angled triangle. The application of the converse has been used throughout history, from the Babylonians in which the tablet Plimpton 322 shows a collection of Pythagorean Triples. The Egyptians used them to ensure the blocks for the pyramids were perfectly square. Pythagorean triples have been used from the times of the ancient Egyptians, Babylonians and Chinese. Most of us know about the {3, 4, 5} or even {5, 12, 13} triples but how many different ratio triples exist? The presentation showed techniques in finding a relationship between Pythagorean triples and Fibonacci numbers. The Mathematics Club would like to thank Mr Scott for his outstanding presentation!

Our second event featured the Einstein Lecture in conjunction with the Australian Institute of Physics and Powerhouse Museum as part of the Sydney Science Festival 2015 on demonstrations exploring the current output from Einstein’s original work on
Einstein’s Universe with the Modern Perspectives. Our distinguished speaker Dr Ken Silburn, discussed Einstein’s scientific theories, how misconceptions are generated, how public opinion is manipulated and other issues of interest to the modern citizen on planet Earth. The presentation showcased the history of science invention, resulting in how we live today. Electricity from Ben Franklin to NASA/Hipophys. Smallpox, Measles to Ebola. Morse code to super computers. And Global warming. It was a captivating, highly informative experience and led to many questions at the end. The Mathematics Club thoroughly thanks the Powerhouse Museum for their support and use of facilities on hosting the event and to Dr Ken Silburn for delivering an outstanding and stimulating 2015 Einstein Lecture!

The event was supported by the:

![Sydney Science Festival](www.aip.org.au)

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**MATHEMATICS CLUB 101 FOR BEGINNERS AND ACHIEVERS**

As an initiative of the Trinity Mathematics Club, this course is designed to provide parents and their sons with the opportunity in an enjoyable workshop format to refresh and/or gain skills in understanding Mathematics of the Real World.

<table>
<thead>
<tr>
<th>8 EVENINGS</th>
<th>16 HOURS</th>
<th>50 DOLLARS</th>
<th>101 REASONS WHY YOU SHOULD DO THIS COURSE!</th>
</tr>
</thead>
</table>

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**COURSE INFORMATION**

**One evening per week** for **8 evenings** during the Michaelmas Term. Commencing on **Tuesday 13 October 2015** from 6pm-8pm in the Arthur Holt Library Seminar Room.

**Cost**  
- $30 per person per unit (4 Evenings) or  
- $50 per person for the entire course (8 Evenings)  
  Refreshments will be included.

**Workshop Facilitators**

Dr Frederick Osman has had an extensive experience of more than 20 years academic industry experience in innovative teaching and researching, in Physics and Mathematics education at the Tertiary Secondary IB/HSC and TAFE institutions. He is currently the Director of Vocational Education and RTO Manager (Careers Education) and the Master in Charge of the Mathematics Club at Trinity Grammar School.

Hugh Colburn has taught mathematics and computer science at school, technical college, polytechnic and university levels and has extensive experience in engineering and financial mathematics. Hugh has presented for the TGS Mathematics Club on a number of occasions in 2013-2015.

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**COURSE DETAILS AT A GLANCE**

**UNIT 1 (TGS2015A) 4 Evenings | 8 Indicative Hours**

**INTRODUCTION TO FUNCTIONAL MATHEMATICS IN LIFE**

- Concepts in Measurements  
- Basic Conversions  
- Fractions and Decimals  
- Why Arithmetic Operations work  
- Ratios

- Estimation – Quick and Dirty  
- Orders of Magnitude  
- Reading and Understanding Graphs  
- Simple Interest  
- Compound interest and Loans

**UNIT 2 (TGS2015B) 4 Evenings | 8 Indicative Hours**

**DECISIONS MAKING AND UNCERTAINTY THROUGH STATISTICS**

- Probability and Expected Values  
- Problem domains and Methods  
- Conditional Probabilities  
- Heuristics  
- How to avoid being fooled by Statistics

- Black Swan Events  
- Programming Robots in comparison to Humans  
- Pilot Project  
- Story Telling  
- How to gauge Audience Reaction

**Entry Requirements** There are no prerequisites for this course.

To confirm your place, please register online by the closing date, **Friday 18 September 2015**. For all enquiries please contact Dr Fred Osman | MIC Mathematics Club  
phone 9581 6040 or email fosman@trinity.nsw.edu.au

**Click here to register online now >**

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**THIS WEEK’S PROBLEM FOR BULLETIN VI:**

1. **Years 7-9: Middle School Problem due on Monday 24 August 2015**

Let's say 26 zips weigh as much as 4 crids and 2 wobs. Also, 8 zips and 2 crids have the same weight as 2 wobs. How many zips have the weight of 1 wob? Please show working to justify your answer!

2. **Years 10-12: Senior School Problem due on Monday 24 August 2015**

A bag contains 7 green balls and 3 red ones. What is the probability of randomly taking out 3 green balls in succession without looking if:

A: Each ball is replaced before the next draw?  
B: The balls are not replaced? Please show working!

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
Department of Defence
Undergraduate Sponsorship Opportunities: The Department of Defence would like to advise you of civilian undergraduate sponsorships available in 2016 in the following degree disciplines:
> Engineering: Mechanical, Electrical, Aeronautical and Civil (Min ATAR 85);
> Business (Min ATAR 80);
> Arts (Min ATAR 75); and
> Science (Min ATAR 75).

These sponsorship opportunities are offered through the University of New South Wales (UNSW) at the Australian Defence Force Academy (ADFA) campus in Canberra. The Defence Civilian Undergraduate Sponsorship (DCUS) offers aspiring university students the opportunity to study alongside members of the Australian Defence Force as civilian students. Successful applicants, who meet the required ATAR, will work to complete a three or four year undergraduate degree, awarded by the University of New South Wales. Attached is the link to our DCUS website for your information and dissemination: http://www.defence.gov.au/dmo/Careers/StudentsandGraduates/UndergraduateSponsorship/Default.aspx

Macleay College
New Bachelor of Advertising and Media Degree: Developed in consultation with key industry leaders, the new degree aims to be up-to-date with dynamic industry change and prepare graduates for careers in the areas of marketing, management, creative, social media, digital production, and media. https://macleay.edu.au/news/macleay-college-launches-new-bachelor-of-advertising-and-media-degree


UTS
New Bachelor of Arts/Bachelor of Education and New Primary, Secondary Teaching Majors: The new Bachelor of Arts/Bachelor of Education degree will now feature a choice of three education majors – Primary Education, Secondary Education, and K-12 Education. As with all teaching degrees offered from 2016, a minimum of three Band 5 HSC results, including one in English is a prequisite for entry into the course. Students who do not meet these requirements may be able to gain entry into the course via a UTS approved pathway. http://www.uts.edu.au/future-students/education/study-areas/teacher-education-undergraduate

UTS
Expanded Eligibility for Access Schemes
UTS’s Schools’ Recommendation Scheme (SRS) is an equity-focused scheme aimed at helping Year 12 students gain entry into university. UTS is broadening SRS eligibility criteria to include students attending EAS listed schools. http://www.uts.edu.au/future-students/teachers/essential-information/schools-recommendation-scheme

UTS
Engineering Industry Merit Based Scholarships: Applications Close: Mon 5th October. A number of Industry Sponsored scholarships are available to provide financial support for the first year of the Bachelor of Engineering Diploma in Engineering Practice degree. Scholars will have direct access to industry sponsors and many undertake an internship with their sponsor company. Applicants will be chosen based on their academic performance, skills evidence in leadership, commitment to an understanding of the engineering profession, and demonstrated initiative in extra-curricular activities. Contact: +61 2 9514 2666 or FEITOutreach@uts.edu.au http://www.uts.edu.au/future-students/scholarships/0000017874

UTS
Bachelor of Information Technology Co-operative Scholarship Programme: Round 2 Applications Open: Mon 3rd August. Round 2 Applications Close: Wed 30th September The Bachelor of Information Technology Co-operative Scholarship Programme provides students with $15,500 per year of study, and two six month full-time industry placements with sponsor organisations. There are two rounds of applications in 2015 for the 2016 intake. http://www.uts.edu.au/future-students/information-technology/essential-information/how-apply/how-apply-bit

UTS
New Digital Course Guides: New interactive course guides are designed to help students explore their UTS course and career options in new and engaging ways. https://www.uts.edu.au/future-students/teachers/tools-and-resources/course-guides

UTS INSEARCh

University of New South Wales (UNSW)
High School Scholarships Now Open: Scholarships for high school students are now open and close Wed 30th September, to access scholarships use the following search tool. https://scholarships.online.unsw.edu.au/scholarship/sc_search/login
UNSW
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

UNSW
Science Information Day: Thu 5th November, 9.00am – 3.00pm, UNSW Kensington Campus
An opportunity for high school students to visit the campus, participate in a range of activities and experience life as a science student. http://www.science.unsw.edu.au/future-students/science-info-day

UNSW
Computing Leadership Award UGCE1206: Closing Date 30/09/2015. Value $2,000 for 1 year. This high school leaver scholarship is open to students (local and international) enrolling in full-time study in the School of Computer Science and Engineering (Computer Science, Bioinformatics Engineering, Computer Engineering, and Software Engineering). Applicants will be assessed on aptitude and ability for this field of study and demonstrated leadership qualities. Leadership qualities may include, but are not limited to:
> community engagement or outreach programmes
> volunteer work
> Special consideration will be given to applicants who have been involved in programmes relating to gender issues or the promotion of computing.


UNSW
Future Students - Key Dates 2015:
> UNSW Open Day: Saturday 5th September
> A Day @ UNSW - Dates: Thursday 24th November, 10th December and Friday 11th December

Australian Catholic University (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
Early Achievers’ Programme: Applications Open: Monday 10 August 2015, Applications Close: Monday 19 October 2015. The Early Achievers’ Programme considers the contribution you have made to your community through your school or workplace, local community organisation, cultural and/or religious group. One of the biggest benefits of the programme is that successful applicants receive an offer well ahead of the usual tertiary admissions announcements. http://www.acu.edu.au/study_at_acu/alternative_entry/early_entry

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_programme

University of Wollongong (UOW)
Management Cadetship Programme: Applications close: Sun 6th September. The University’s Management Cadetships provide an opportunity to combine work and study. Cadets work in a number of areas across the university including finance, marketing, and student administration, while also undertaking a relevant undergraduate degree. Cadets receive an annual salary and undertake a specialized placement relating to their degree major in their final two years. http://www.uow.edu.au/content/groups/public/@web/@unia/@cadet/documents/doc/uow126410.pdf

UOW
English Extension and History Extension Study Days:
History Extension: Wed 18th November, 8.45am, Building 20 foyer. English Extension: Thu 19th November, 8.45am, Building 20 foyer. See what university feels like while also attending a series of tailored sessions designed to help students achieve their potential in either History Extension or English Extension. http://www.uow.edu.au/future/events/index.html

UOW
Management Cadetship Programme: Applications close: Sun 6th September. The University’s Management Cadetships provide an opportunity to combine work and study. Cadets work in a number of areas across the university including finance, marketing, and student administration, while also undertaking a relevant undergraduate degree. Cadets receive an annual salary and undertake a specialized placement relating to their degree major in their final two years. http://www.uow.edu.au/content/groups/public/@web/@unia/@cadet/documents/doc/uow126410.pdf

UOW
Early Admission: Applications open Mon 3rd August. University of Wollongong early admission enables students to gain entry into university before receiving theirATAR. For more information visit: http://www.uow.edu.au/future/early-admission/index.html
To view a video on interview tips for early admission, visit: https://www.youtube.com/watch?v=vfzXkHuVY

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/

Macquarie University
Global Leadership Entry Programme for Year 12 Students: Applications close: Sat 15th August. The Global Leadership programme provides students with the opportunity to gain practical skills through volunteering and participating in leadership activities in Australia and overseas. As part of the programme students will gain early entry into a limited number of Macquarie degrees and will also receive invitations to special events and pre-study programmes. The programme is open to Year 12 students who are not only doing academically well but are also leaders in their community. Contact: 1800 351 117 https://mq.edu.au/study/undergraduate/getting_in/entry_schemes_and_pathways/global_leadership_entry_program/
Australian National University
Academic Bonus Points: ANU awards academic bonus points to domestic students who have excelled in select subjects in Year 12 and have applied for an ANU Bachelor degree or Flexible double degree. Students who achieve the required results in the specified subjects will automatically have bonus points added to theirATAR. http://www.anu.edu.au/study/apply/academic-bonus-points

The University of New England
Direct Early Entry Programme Now Open: Applications close Fri 11th September. UNE’s Early Entry Programme allows students to gain entry into UNE before they receive theirATAR. Students are required to apply online and have a representative from their school confirm details of their application before they are considered for early entry by UNE. 2016 applications for UNE early entry programme are fully online. Schools are required to register for the Early Entry Programme to enable students to apply. http://www.une.edu.au/study/study-on-campus/get-early-entry

My Open Day
A website where you can find information about the upcoming open days at universities, TAFE and private colleges, as well as information about gap years and other career news.http://myopenday.com.au/

ACPE Open: Day GET MOVING by heading down to our ACPE Open Day! Find out exactly where a qualification from ACPE can take you and what steps you need to take in order to succeed in the industry. PLAY TO YOUR STRENGTHS and understand how you can live your dream career in sport, health, education or dance. Our Open Day will give you all the information you need about ACPE, student life and application procedures

Alpharcrucis College Open Day 2015 Alphacrucis College Open Day is a showcase of everything our college has to offer. Attendees will learn more about our Diplomas, Bachelors, Masters and Doctorates in Business, Music, Teaching, Counselling, Theology, Chaplaincy, Leadership, Ministry and Missions. Ideal for senior high school students, parents and career advisors. Learn more and register at: http://openday.ac.edu.au/

Register now for the Macleay College Open Day on Saturday 22 August! Experience the Macleay College difference at Open Day on Saturday 22 August. Learn about our courses in Journalism, Advertising and Business from lecturers working in the industry. Speak with current and past students about internships and careers after graduating. Take a tour of our amazing facilities and see our very own TV Studio in action! https://macleay.edu.au/campaign/open-day-august-22

UOW College - UOW SYDNEY CBD OPEN DAY 2015 The UOW College will be exhibiting at the UOW SYDNEY CBD OPEN DAY on the 29th of August at the Sydney CBD Campus located in the Gateway Building, Circular Quay. We will be available to discuss the UOW College Diploma of Business (Sydney) which is run once a year at the CBD Campus. Further information can be obtained at - http://business.uow.edu.au/news-events/sydney-open-day/index.html.

University of Sydney
Open Day: Sat 29th August, Camperdown. Explore the university campus and student life, get academic advice and attend mini lectures http://sydney.edu.au/open_day/

University of Western Sydney
Open Day: Sun 30th August, 10.00am-2.00pm, UWS Parramatta Campus. Meet academic staff, attend course presentations, get scholarship information and learn about pathways into UWS http://openday.usw.edu.au/index.php

Macquarie University
Open Day: Sat 12th September, North Ryde. Attend mini-lectures on Macquarie University degrees, explore the campus, obtain information about alternative pathways and speak to academics about specific degrees and units http://www.mq.edu.au/openday/

University of Newcastle
Open Days: Sat 22nd and August. Meet academic staff, attend course presentations, get scholarship information and learn about pathways into UNCL http://www.newcastle.edu.au/future-students/key-dates

Australian Defence Force Army
Sat 29th August, 9.00am – 4.00pm, Northcott Drive in Campbell, ACT. Defence and University staff will be available to provide careers and course information. ADFA Navy Midshipmen and Army and Air Force Officer Cadets will also be available to talk to attendees about life at ADFA. Open Day will also provide an opportunity to see a range of displays from the Army, Navy and Airforce. Contact +61 2 6268 8201 or student.recruitment@adfa.edu.au http://www.openday.adfa.edu.au/about.html

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

University of Canberra
Open Day: Sat 29th August, University Drive, Bruce. View the facilities and speak to academic staff and current students to learn about the courses available. http://www.canberra.edu.au/openday

Australian Catholic University

University of Notre Dame
Open Day: Sat 29th August, 9.00am – 3.00pm, Broadway Site, 104 Broadway, Chippendale. Contact: (02) 8204 4404 or pssydney@nd.edu.au http://www.notredame.edu.au/openday/

UTS
Open Day: Sat 29th August, 9.00am – 4.00pm, UTS City Campus. Visit the campus, attend a range of information sessions and talk one-on-one with UTS academics, staff and current students. http://www.uts.edu.au/future-students/openday

Australian National University
Open Day: Sat 29th August, 10.00am – 4.00pm Learn about the courses available, speak to staff and students, and view accommodation options available for interstate students. Contact: student.recruitment@anu.edu.au http://www.anu.edu.au/study/events/anu-open-day-2015

Sydney TAFE
Open Day: Sat 29th August, 9.00am – 3.00pm, Harris St, Ultimo Over 100 information sessions will be held throughout the day with staff, graduates and employers available to speak to prospective students. Contact: 1300 360 601 http://sydneytafe.edu.au/news/events/sydney-tafe-openday

My Future Scholarships
The My Future website currently lists over 4000 undergraduate and postgraduate scholarships. The type of support ranges
from course fees, accommodation, grants, and travel within or outside Australia, and covers fields of study across all Australian universities. To view, visit: http://www.myfuture.edu.au/tools-and-resources/study-or-training-options/scholarshipsearch

Australian Catholic University
Early Achievers’ Programme: ACU recognises that you have more to offer than your academic results. Our Early Achievers’ Programme considers the contribution you have made to your community through your school or workplace, local community organisation, cultural and/or religious group. Applications open 10 August and close 19 October, 2015. For more information please visit www.acu.edu.au/early-achievers

Other Programmes and Courses
Turning Point Consulting
Resume Writing and Interview Skills, Turning Point Consulting, Your Time and Date: Book now for your in school career workshops of resume writing and/or interview skills! We come to you, throughout NSW and ACT, and provide tangible examples from personal experience hiring individuals. Supporting your programme for engagement, read more at http://www.turningpointconsulting.com.au/student-events-calendar/ or call Kathryn 0478 570 707 to discuss.

Career Assessment and Coaching, Turning Point Consulting, throughout the year: Assisting students throughout their transition into the workforce we offer one-on-one strengths-based career consultations to support students in seeing their value and potential career pathways. With experience in a range of industries we are able to build confidence as well as career tools to deliver outcomes. Partnering students to professionals, call Kathryn 0478 570 707 to discuss.

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

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 3 September 1st
Term 4 October 13th, 27th, November 10th, 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 email gwebster@trinity.nsw.edu.au
> Margaret Chu (Summer Hill) mobile 0433 124 523

TRINITY GRAMMAR SCHOOL | 2015 ANNUAL GIVING APPEAL

CLICK HERE FOR MORE INFORMATION
Milton Cujes | Head Master | Friday 21 August 2015

**WEEK 7 | 24th August - 28th August**

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<tr>
<th>Monday</th>
<th>Ping, L.</th>
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<td>Tuesday</td>
<td>Ewida, G; Kostoglou, O; Moore, D.</td>
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<td>Wednesday</td>
<td>Balkwell, B; Casimir, M.</td>
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<td>Thursday</td>
<td>Parekh, M; Sachdev, R.</td>
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**WEEK 8 | 31st August - 4th September**

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<tr>
<th>Monday</th>
<th>Dixit, N; Shohat, Y.</th>
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<tr>
<td>Tuesday</td>
<td>Debono, D &amp; P; Ewida, G.</td>
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<td>Wednesday</td>
<td>Kostoglou, O; Moore, D; Oo, Htar Htar, Serb, J.</td>
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<tr>
<td>Thursday</td>
<td>Cameron, E; Vlahopoulos, A.</td>
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YEARS K TO 9 FOOTBALL CLINIC
SEPTEMBER SCHOOL HOLIDAYS
21ST SEPTEMBER - 24TH SEPTEMBER

Boys from Kindergarten to Year 9 have a magnificent opportunity to attend the Trinity Grammar School Football Clinic in the July Holidays. **Benefits** of participating at this camp include:

- 24 hours of football tuition over four days.
- Participants train as per the Football Federation Australia National Curriculum.
- **5-8 year old** participants focus on natural development (in Striking the Ball, Running with the Ball and 1v1) through fun football exercises and games.
- **9-13 year old** participants focus exclusively on improving their technical skills in the areas of first touch, striking the ball, running with the ball and 1v1.
- **14-15 year old** participants focus on improving the above technical skills and learning how to apply these core skills in a functional way.
- Middle School participants have opportunity to partake in video analysis using Game Breaker Software. The video analysis viewing facility includes the newly refurbished 110 seat Latham Theatre.
- Training facilities include a synthetic all weather football field and three indoor basketball courts.
- Participants play in mini tournaments that replicate the ‘A-League/Champions League/World Cup’.
- Participants are tiered according to their playing level.
- All participants receive BBQ on Monday and Thursday.
- Drinks and fruit provided each day.
- **Coaching Staff** are fully qualified coaches who were former distinguished Football players. Leading coaches will be David Barrett and Luke Gray, both current school teachers at Westfield’s Sports High and Trinity Grammar School respectively. David played well over 300 National Soccer League games and Luke is the current Sydney University Assistant 1st Grade coach and the MIC and Director of Football Coaching at Trinity.
- See the following link for footage from the April Holiday Clinic [https://youtu.be/5Oj9_gbgiq4](https://youtu.be/5Oj9_gbgiq4)

**THE DETAILS**

**Where**  
Trinity Grammar School, Summer Hill

**When**  
Monday 21st September to Thursday 24th September

**Time**  
9am to 3pm (check in at 8:45am Monday only)

**Bring**  
Football boots, indoor shoes, sunscreen, hat, and water bottle. Bring your own Football.

**Cost**  
$280. BOOKING and PAYMENT made by clicking on the following link at Trinity Online Community Website. [http://bit.ly/1FZmNln](http://bit.ly/1FZmNln)

**IF BAD WEATHER**  
No Cancellations

**CANCELLATION FEE**  
20% cancellation fee occurs after Tuesday September 15th, 2015

Enquiries To:  
Mr Luke Gray  
email lgray@trinity.nsw.edu.au or mobile 0406 236 768
Dear Parents/Guardians,

Your son has been invited to participate in a Water Polo Training Camp, which will be held at Trinity Grammar School, in the upcoming September / October Holidays. The camp will be run and supervised by Mr Bruce Duffy, Director of Water Polo Coaching.

Coaching Staff:
Our coaching staff for this Development Camp will be Bruce Duffy along with current Water Polo coaches.

Student Expectations:
Whilst on this camp, boys are reminded that they are representing Trinity. As such be required to exhibit exemplary conduct at all times. The front green section of the Record Book clearly outlines the School's expectations of boys' behaviour and it is their responsibility to adhere to these expectations to ensure the safety and enjoyment of themselves and others. The staff on this camp will have no hesitation in taking action with boys who do not comply with these expectations.

THE DETAILS

WHERE Trinity Grammar School Pool, Summer Hill
WHEN Tuesday 29th September to Thursday 1st October, 2015
TIME 9.00am to 12.30am (check in at 8:45am)
BRING > Trinity Swimmers
> Morning Tea /snacks for each day
> Water bottle
> Towel
> Swimming Goggles
> School Water Polo / Sports Uniform
COST There are no costs associated with this camp

Epipen: If your son has been prescribed an Epipen, it is his responsibility to ensure he carries it with him at all times

Please register online by Monday 14th September 2015

Inquiries Mr Duffy | Director of Water Polo phone 9581 6000 or email bduffy@trinity.nsw.edu.au

Yours sincerely
Mr Bruce Duffy | Director of Water Polo Coaching

Emergency Contact Details: In case of an emergency only, your son can be contacted on the following number during the camp: Camp Mobile 0428 622 930