From The Principal

This week I attended a Monash University graduation ceremony, not for any altruistic purpose but because our eldest daughter was graduating. During the ceremony I had time to reflect and I thought about learning and achievement for our students. The university motto ‘Ancora Imparo’ translates as ‘I am still learning’ (although someone, presumably a unimelb graduate, once suggested that it translates as “I didn’t get into Melbourne!”), and is attributed to Michelangelo.

In the St Bernard’s learning community, we often talk about creating life long learners and developing in our students a curiosity and capability that will see them engaged in formal and informal learning throughout their lives. Modelling is an important part of teaching and three of the College Leadership team are undertaking study toward a Doctorate (Chris Knauf, Pauline Thompson and Paul Shannon). A further fifteen teachers are undertaking Masters level university study, many in Religious Education. I hope that students see and learn from their teachers as we continue to seek knowledge, both for its own sake and because it helps us be better educators.

The graduation ceremony was bookended by academic staff speaking about the importance of education and how critical it is, both it is as an end in itself and for the betterment of society. Sir John Monash after whom the University is named is quoted as saying “…equip yourself for life, not solely for your own benefit but for the benefit of the whole community.” The commonality between this vision and our goal at St Bernard’s is striking, although the impetus for Monash is secular while ours comes from Gospel values. We are inspired by a belief in the fundamental dignity of every human person as they are made in the image and likeness of God.

Preparing boys well for tertiary study is important as approximately 90% of our graduates are offered a tertiary place. It is important that we have a significant focus, not only on assisting boys to achieve a high ATAR, but to ensure that they know how to learn in a tertiary setting. One important element for tertiary success is being in control of one’s own learning.

Our teachers are increasing the emphasis on student centred learning. This is to improve their engagement with learning now as well as ensure that they are are ready to succeed in tertiary study. This change away from teacher centred learning is often difficult for some boys because it is easier to passively do what a teacher tells you rather than controlling your own learning.

One of many significant initiatives designed to assist student centred learning is the ‘learning spaces project’ which has been operating for the last two years led by Paul Shannon. This project investigated classroom configuration and student engagement. Some classrooms were reconfigured as flexible learning spaces with furniture and access to equipment designed to support non traditional teaching teaching modes. Others remained as standard traditional classrooms. Teachers were invited to design their own spaces, access professional learning and formulate their own Professional Learning Teams (PLTs).

Students and teachers were asked about how students learnt, and were engaged in the different rooms. The data suggested an overwhelming endorsement for the flexible learning spaces. The ability for students to work individually, in pairs, groups of three or four and whole class presentations was particularly valued. One teacher explained “the tables were moved into groups of four with all students able to face each other whilst having their own area to write and research - this created an atmosphere where collaboration and independent work was easy. I was so impressed with how productive the students were overall, with most presentations nearly completed during that time frame.” The vast majority of teachers and students involved in the project echoed this sentiment.

As a result we are moving forward with reconfiguring more traditional classrooms and skilling teachers in how to use these spaces. The year seven homerooms will be changed during the midyear break. This type of learning is consistent with the demands of a tertiary environment. It helps boys take more control of their own learning and engenders greater engagement and higher levels of communication, collaboration and motivation. These should improve secondary school performance and better prepare our students for tertiary study and being life long learners. God Bless.

Tony Paatsch, Principal
From The Deputy Principal

Parent Portal (MySBC)
We are pleased to announce the launch of our Parent Portal (MySBC) our new communications gateway. The Parent Portal is now available to parents and promises to enhance the already strong partnership with the college in exciting and productive ways. Please log-on to check details and information, in particular medical details and change if necessary.

Parent/Guardian Visitors
We have a wonderful community at St Bernard’s with many examples of parent involvement. This makes for rich opportunities of genuine partnership between staff and students. With the exception of volunteers in the canteen and special events, it is important that all parent/guardians report to main reception before entering college grounds. It may be necessary to obtain a visitors pass if there is deemed to be a need to enter walkways, corridors or other buildings.

Year 12 SACS/Revision Sessions
A number of Semester One SACs/Revision Sessions for all Year 12 students will be held from: Wednesday, 8 June through to Friday, 10 June.

The timetable for these sessions has been made accessible to students and is available from the Year 12 notice board. Most Year 12 SACs commence with 15 minutes reading time. Please note carefully the dates and times, as misreading the timetable is not accepted as an excuse for missing a SAC. All students must attend their scheduled SACs in their full school uniform and arrive no later than 30 minutes prior to their assessment. From 10 June to 12 June, there are no scheduled classes for Year 12 students, so students are expected at school only for their timetabled SACs/Revision Sessions.

Mr Tollitt should have already been notified of any SAC clashes.

GAT
The GAT for all students undertaking a Unit 3 & 4 subject will be held on Tuesday, 7 June, commencing at 10.00am in the College Gym. Please arrive by 9.00am and report to the assembly area outside the gym.

VCAL Classes And Edmund Rice Pathways
Classes continue as normal throughout the exam period.

Semester Two Classes
VCE Unit 4 subjects will officially start on Tuesday June 14. Friday June 17 is a report-writing day for staff and therefore no classes for students.

Year 11 Examinations
Semester One exams for all Year 11 students will be held from: Friday, 3 June through to Friday, 10 June.

The timetable for the Year 11 exams has been e-mailed to students and is available from the Year 11 notice board. Most Year 11 Exams will be held in the Gym and will commence with 15 minutes reading time. Please note carefully the dates and times, as misreading the timetable is not accepted as an excuse for missing an exam.

All students must attend their scheduled exams in their full school uniform and arrive no later than 30 minutes prior to their exam. From June 3 to June 10, there are no scheduled classes for Year 11 students, so students are expected at school only for their timetabled exams.

Mr Nikolas Brudenell & Mr Michael Torpey should have already been notified of any exam clashes.

GAT
The GAT for all students undertaking a Unit 3 & 4 subject will be held on Tuesday June 7, commencing at 10.00am in the College Gym. Please arrive by 9.00am and report to the assembly area outside the gym.
Examination Rules
A detailed explanation for the conduct of exams at the College is contained below.

VCAL Classes
VCAL classes continue as normal throughout the exam period.

Semester Two Classes
VCE Unit 2 subjects will officially start on Tuesday, 14 June. Friday, 17 June is a report-writing day for staff and therefore no classes for students.

Year 10 Examinations
Semester one exams for all Year 10 students will be held from: Thursday, 9 June through to Thursday, 16 June.

The timetable for the Year 10 exams has been e-mailed to students and is available from the Year 10 notice board. Most Year 10 Exams will be held in the Gym and will commence with 15 minutes reading time. Please note carefully the dates and times, as misreading the timetable is not accepted as an excuse for missing an exam.

All students must attend their scheduled exams in their full school uniform and arrive no later than 30 minutes prior to their exam. From 9 June to 16 June, there are no scheduled classes for Year 10 students, so students are expected at school only for their timetabled exams. Friday, 17 June is a report-writing day for staff and therefore no classes for students.

Mr Neville Box & Mr Nick Smith should be notified of any exam clashes.

Year 10 Work Experience
Work Experience for all Year 10 students commences on Monday, 20 June and concludes on Friday, 24 June. Work placements should already be organized. Please see our Careers Practitioner, Mr David Rosel, immediately if you have not organised a placement.

Year 10 Semester Two Classes
Semester Two subjects will officially start on Monday, 11 July, after the school holiday period.

Paul Shannon
Deputy Principal

Kokoda Trivia Night

Declan Whiteman, Nicholas Njegac, Thomas McAllister, Michael Comerford and Jack Edwards of Year 11, along with 14 other students from three other schools, teachers, Victoria Police and sponsors will be completing Kokoda late June. All involved have been training hard each Wednesday night and alternate Saturdays since February. The students from the four schools involved have been tasked with raising $10,000 for the Dah Cavell School in Port Moresby, PNG.

Last Friday, 20 May, the Kokoda Trivia Night was held as the major fundraiser attracting 180 people. Thanks to generous donations, a raffle, silent auction and the trivia, the target was not only met but exceeded with the current fundraising total around $14,000. A big thank you to all involved in ensuring the night was a success.

Daniel Baldwin

Parents and Friends Association
The next meeting of the SBC Parents and Friends Association will be conducted on Tuesday, 14 June in the Peter Hogan Board Room. This month our guest speaker will be David Rosel who will discuss careers. There will also be a Q&A session so all are welcome.

Stefan Loukomitis, SBC P&FA President
Staff Professional Development Day (Report Writing)

Staff will be undertaking a Professional Development day on Friday, 17 June. Students will not be required to attend school on this day.

Craig Osborne
Director of Organisation

Careers News

RMIT Science in the City Lab Tours
Students and parents are invited to visit RMIT’s state-of-the-art learning laboratories to learn more about the programs on offer, and the research and training facilities available. Students will also find out more about the wide range of single and double degree science programs available at the city campus including: biology, biotechnology, chemistry, environmental science, food science, nanotechnology and physics.

Date: Monday, 27 June 2016
Time: 11.00am – 2.00pm
Venue: Building 3, Level 1, Applied Sciences Reception, RMIT City campus
This is a free event but registrations are important. Register at Science in the City (Lab Tour)

RMIT Medical Laboratory Visits
RMIT in collaboration with research laboratories is giving Year 10, 11 and 12 students the chance to visit medical laboratories across metropolitan Melbourne and regional Victoria. Students who are interested in the role of a Medical Scientist during the investigation, diagnosis and treatment of diseases are encouraged to attend. This free tour will give students a chance to find out what really happens behind the scenes. The half day visits will take place during the week of Monday, 4 July to Friday, 8 July 2016.
For more information or to pre-register, visit Medical Laboratory Visits

MONASH Medicine Update
The Monash University School of Medicine is internationally recognised for providing a world-class education with a comprehensive and interdisciplinary approach to medical training.

The Bachelor of Medical Science and Doctor of Medicine (MD) will replace the Bachelor of Medicine and Bachelor of Surgery (Honours) MBBS for applicants commencing in 2017. The course is internationally recognised and students will graduate with a higher level qualification.

Deputy Dean of the MD program Professor Michelle Leech explains “the new program will be focused as before on preparing graduates for medical practice with a strong focus on patient safety. The course will also focus on enhanced research and professional practice skills to equip Monash graduates to improve the health of our communities locally and globally.” Importantly, the entry and selection requirements for both programs will also remain unchanged. Find out more by browsing Medicine at Monash

REMINDERS:
• Undergraduate Medicine and Health Sciences Admission Test (UMAT) – Register by: 3 June
• ‘INSIDE MONASH’ SEMINARS: Biomedical Science, Radiography and Nutrition and Dietetics - 25 May, Business & Economics - June 15; Info/Book: www.monash.edu/inside-monash
• ‘FOCUS ON MELBOURNE’ – seminars (6.30-8.00pm) - Agriculture - 24 May; IT - 25 May; Science 31 May; Information/register: http://futurestudents.unimelb.edu.au/focus2016.
• Experience RMIT – for holiday programs see: www.rmit.edu.au/experiencedays
• Experience La Trobe – See: www.latrobe.edu.au/study for details and to book.
Explore Occupational Therapy – 14 July @ Austin; Apply: keely.zenner@austin.org.au
Elite Sporting Scholarships at Victorian Universities

Elite athletes should note that most institutions offer very tailored support to athletes, including extension of deadlines for assignments, modified academic programs to take into account training, etc.; possible funding towards travelling for event (this would be for amateur athletes only), etc.

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<th>VCE REQUIREMENTS</th>
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<tr>
<td><strong>ACU</strong></td>
<td>Elite Athlete and Performer Program</td>
<td>Depending on the proven elite level of the athlete or performer, students may receive scholarship grants of up to $2000</td>
<td>Current Students or students who have already accepted an ACU offer, can apply at any time during the year.</td>
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<tr>
<td><strong>LA TROBE</strong></td>
<td>Michael Malthouse Elite Sports Bursary</td>
<td>$10,000 awarded to a student with high academic achievement, and currently competing at state, national or international level in their chosen sport.</td>
<td>Australian student commencing a course at a La Trobe campus; and expecting to attain an ATAR of 90+</td>
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<td><strong>MONASH</strong></td>
<td>Team Monash Elite Student Performer Scheme</td>
<td>$100 to $1000 one-off payment and/or a Monash Sport gym membership</td>
<td>Australian student commencing or continuing an undergraduate course at a Monash campus in Australia.</td>
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| **UNI MELBOURNE** | Sport Scholarship | Sport Scholarship Support may include:  
- Up to $2,000 to assist with travel, equipment and associated coaching costs  
- Subsidy up to $1000 for representation at University Games/Championships  
- 12 Month ScholarFit membership at Melbourne University Sport  
- Physiotherapy services  
- Strength and Conditioning | Students must meet the prerequisites and can demonstrate that their training and competition commitments have interfered with their previous studies. **Please note:** In order to be eligible athletes must be identified and recognised as an elite athlete by one of the organisations listed on the application form. |
| **VU**      | Elite High Performance Scholarship |  
- up to $2000 in cash support  
- [Victoria University Aquatic and Fitness Centre](#) annual membership (ScholarFit).  
- Australian University Games cost waived.  
- elite athlete recognition enabling recipient to be considered for academic flexibility where training and competition (especially due to international travel) impacts on course attendance, enrolment status and /or assessment tasks  
- access to VU health services (Osteopathy, massage and nutrition clinics) | Must be a current student at VU, so once enrolled may apply. |

David Rosel  
Careers Practitioner
Echoes from the Archives

The Opening of the Extensions to St Bernard's College

Two dates must forever stand preeminent in the archives of St Bernard’s.

Firstly, 1st July 1940, when the College was officially opened and blessed by Most Reverend D. Mannix, Archbishop of Melbourne. On that day the Brothers looked to the future with hope. Secondly, the 8th May, 1955, fourteen years later, when the Official Blessing and Opening of the first extensions of the Monastery and School were performed by the Right Reverend Monsignor J. Hannan. Then the Brothers could look to the past with pride and to the future with confidence.

To welcome Monsignor Hannan, a Guard of Honour was formed by the students of the College under the guidance of the prefects. It stretched from Mt Alexander Road to the entrance of the College. The Prelate’s car slowly drove between rows of saluting boys standing respectfully with their caps on their chests. Then followed the simple dignified ceremony of the Blessing.

In Monsignor Hannan’s speech he mentioned that the requirements for all Catholic buildings are “Grace, Grit and Greenbacks” each of which must be contributed in part by all.

Maureen Kavanagh
Archivist

Library News

What’s Been Happening?
The Mitchell Library has been quite busy. We have introduced a new section in the library called Phenomenal Reads for the students, these books provide an interesting alternative to reading fiction. They are real stories or about real situations that are highly appealing to those who are not interested in reading fiction. Here are some titles from our new Phenomenal Reads, come in and check it out next time you are in the library!

Bravo Two Zero
In January 1991 a squad of eight men went behind the Iraqi lines on a top secret mission. It was called Bravo Two Zero. On command was Sergeant Andy McNab. “They are the true unsung heroes of the war.” -- Lt. Col. Steven Turner, American F-15E commander.

Dropped into “scud alley” carrying 210-pound packs, McNab and his men found themselves surrounded by Saddam’s army. Their radios didn’t work. The weather turned cold enough to freeze diesel fuel. And they had been spotted. Their only chance at survival was to fight their way to the Syrian border seventy-five miles to the northwest and swim the Euphrates river to freedom. Eight set out. Five came back.

Concussion
Part medical whodunit and part biography, this arresting account introduces Bennet Omalu, a forensic pathologist who reluctantly unravels a medical threat that challenges the future of the National Football League. Omalu stirs up a hornet’s nest when he testifies about these conclusions in court.

“On the surface is nothing, but you open the skull and the brain is mush.” Some NFL officials and gridiron vets think the CTE legal aftermath has weakened football’s muscular appeal, but Laskas expertly makes the case for valuing the health of football players over the image of the league, justifying the large cash settlement for damage
**Book Club**
A Junior Book Club has commenced at St Bernards College this term. The group is reading Risk by Fleur Ferris at the moment and have already decided on our next read, which is London Eye mystery by Siobhan Dowd (see below). There are many benefits of joining one of our Book Clubs (we have a Senior and Junior Book Club running).

The group decides on the books that are read in our club, the students are able to meet regularly (once a fortnight in Lunch breaks) to meet with other people who like to share their interest in reading for fun/recreation, the boys have an opportunity expand friendship groups and try something different, treats are on offer at the meetings, they are able to keep the book they have chosen.

House points are awarded for attendance and the students are exposed to reads/genres that they may not have thought about reading however they find they do enjoy the new author or genre.

If your son is interested in reading for fun/recreation encourage him to speak to me directly in the library or email Ms Gale at [jgale@sbc.vic.edu.au](mailto:jgale@sbc.vic.edu.au).

Monday, 24 May, 11.32 a.m. Ted and Kat watch their cousin Salim get on board the London Eye. He turns and waves and the pod rises from the ground.

Monday, 24 May, 12.02 p.m. The pod lands and the doors open. People exit in all shapes and sizes – but where is Salim?

Ted and his older sister Kat become sleuthing partners since the police are having no luck. Despite their prickly relationship, they overcome their differences to follow a trail of clues across London in a desperate bid to find their cousin. And ultimately it comes down to Ted, to find the key to the mystery.

_Jacqui Gale_
_Library_
YEAR 11 & 12 WINTER SCHOOL
Get Ahead, Reduce Stress & Cut Down on Study Time
Includes a Free* English Lecture Valued at $200!

Unit 4: Get Ahead & Reduce Stress
Unit 3: Revise, Consolidate & Extend
Unit 2: Get Ahead & Reduce Study Time

Venue: The University of Melbourne & TSFX
Saturday 25 June 2016 – Sunday 10 July 2016

www.tsfx.com.au
Year 11 & 12 Winter School

“If I had been aware of how brilliant the TSFX lectures were, I would have gone to them at the beginning of the year.” Student, Rosebud Secondary College

Unit 2 & Unit 4 Head Start Lectures

The Term 2 holidays offer students the opportunity to get ahead in their studies and reduce stress levels and workloads in Terms 3 and 4. Students who work through course materials in advance will quickly realise the benefits when the same topics are covered at school. While other students struggle to understand new concepts being delivered in class, you will be hearing this information for the second time. Your ability to apply concepts will be greatly improved, increasing confidence levels, reducing the time that needs to be spent on your studies, while markedly improving VCE marks.

Working through materials on your own, however, can be time-consuming, boring and ineffective. Our “Unit 2 & Unit 4 Head Start” program has therefore been designed to help you secure the best possible advantage in the VCE in a time-efficient and relatively painless manner. You will work through key topics from the Unit 2 or Unit 4 course, gain advance exposure to SAC and exam-style questions, and develop the problem-solving skills that are needed to secure the higher marks. Comprehensive A+ notes will be provided in each subject.

Unit 3 Exam Revision Lectures

The VCAA exams that commence in October will assess an entire year’s work, and count for up to two-thirds of each subject’s Study Score. The amount of material that needs to be committed to memory is substantial, resulting in high levels of stress and study in the challenging months leading up to the final VCE exams.

Students can save significant amounts of time and effort by revising and extending on the Unit 3 course to VCE examination standard, while course materials are still fresh in mind. Our “Unit 3 Exam Revision” lectures have been designed with this purpose in mind, and to provide students, like you, with the skills and information needed to perform to a high standard in the VCAA exams.

During our “Unit 3 Exam Revision” lectures, you will obtain a complete and detailed coverage of examinable materials to VCAA examination standard. Each lecture will review and extend on the materials covered at school, exposing students to a large collection of examination-style questions, as well as frequently overlooked tricks and traps that could appear in exams. You will also learn how examination papers are marked and how answers must be presented if they are to be awarded full scores. Emphasis will be placed on the more challenging concepts, as well as the areas that have been poorly addressed in past VCE exams. Comprehensive A+ notes will be provided in each subject.

13 Reasons Why You Should Attend

- YOU WILL receive valuable advice and instruction from leading teachers from top ranking schools.
- YOU WILL receive the most detailed and comprehensive instruction from Victoria’s most trusted and successful program provider (up to 9 hours in select subjects).
- YOU WILL reduce stress levels and workloads in the challenging weeks leading up to your exams.
- YOU WILL work through course materials to an A+ standard in a simple, step-by-step manner.
- YOU WILL hear information from a different perspective and develop a deeper understanding of course materials. This will improve the quality of your SAC and exam responses and how well information can be applied in unfamiliar applications.
- YOU WILL eliminate the need to waste valuable time preparing your own study materials. Each student will receive detailed and comprehensive A+ notes that include worked examples, step-by-step instructions, exam watch-outs, as well as a large collection of examination-style questions to work through at home. Note: To date, NO OTHER organisation has been able to match the quality and depth of materials that are issued to students who attend TSFX programs.
- YOU WILL significantly cut down on study time. You will cover (and learn) 5 times more information than if you were to work through the same materials on your own!
- YOU WILL work through examination-style questions and learn how to set out answers in accordance with the marking schemes used by VCE exam markers.
- YOU WILL discover the tricks and traps that could appear in your tests and exams.
- YOU WILL learn how to interpret and solve the difficult analysis-style questions.
- YOU WILL learn proven strategies that will maximise your SAC and examination marks.
- YOU WILL develop greater confidence in all of your studies.
- YOU WILL gain a huge advantage over your VCE peers!

Dates & Times: Year 11 & 12 Winter School

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<td>Unit 3 Chemistry (Session 1)</td>
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<td>Unit 3 Maths Methods (Session 1)</td>
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<td>Unit 3 Biology (Session 1)</td>
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<td>Unit 3 Psychology (Session 1)</td>
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<td>Unit 3 Maths Methods (Session 1)</td>
<td>Unit 4 Maths Methods (Session 1)</td>
<td>Unit 3 Physics (Session 1)</td>
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Repeat sessions of a particular subject are identical. For example, Sessions 1 & 2 of the Unit 3 Biology lectures are the same. Each full day subject lecture includes a one hour lunch break, as well as short breaks throughout the day.
What Will be Addressed at the Unit 2 & Unit 4 Head Start Lectures?

Accounting (Unit 4)
Topics include: Recording & valuing stock, depreciation methods & disposal, balance day adjustments, balance sheets, income & cash flow statements & the profitability, liquidity, efficiency & stability of a business.

Biology (Unit 4)
Topics include: Cell reproduction, molecular genetics, inheritance, DNA techniques & tools, changing allele frequencies, evidence for biological evolution, determining evolutionary relationships, homind evolution & human intervention in evolutionary processes.

Business Management (Unit 4)
Topics include: The role of the human resource manager, employment cycles & employee relations, management roles, styles & skills, ethical & socially responsible management, management of change, forces affecting change & impacts of change on LSO’s.

Chemistry (Unit 2)
Topics include: Structure, bonding & properties of water, solubility tables & curves, specific heat capacity, latent heat, writing balanced equations, principles & stoichiometry involving gravimetric, acid-base & redox reactions, concentration & unit conversions, the pH scale & colorimetry.

Chemistry (Unit 4)
Topics include: Reaction rates & yields, equilibrium constant calculations, Le Chatelier’s Principle & it’s applications, the ionic product of water, acidity constants, energy, efficiencies of energy transformations, energy profiles, thermochemistry, calorimetry & applications in electrochemistry (including galvanic & electrolytic cells).

English (Unit 2)
Reading & comparing texts: You will explore the ways authors convey ideas, issues & themes (such as settings, events & characters) in texts & the features of comparative analysis.

Analyzing & presenting argument: Learn how to dissect & analyze the ways authors try to influence audiences (including logic, reasoning & persuasive language) & how to write controlled, high-quality responses that present arguments & points of view that employs language that is specific to the exam assessment criteria.

Students attending the Unit 2 or Unit 3/4 English lectures will be guided through sample essays & scenarios to gain a better understanding of what is required in order to perform to a high standard in the exam. Common errors made in past exam responses will also be discussed.

English (Units 3 & 4)
Using Language to Persuade: You will extend your ability to dissect & present the analysis about how points of view are relayed in both written & visual texts & learn how to write controlled, high-quality responses that present arguments & points of view using language that is specific to the exam assessment criteria.

Exam Text Response: Learn how to write structured, coherent & sophisticated arguments that effectively use evidence from a text.

Context Lectures: We will explore key passages & analyze the critical ideas & arguments relating to your context. You will also learn how to interpret a prompt, engage your intended audience & use a text as a basis for writing pieces using expository, persuasive, imaginative & hybrid styles.

Health & Human Development (Unit 4)
Topics include: Sustainability, Human Development Index, the factors that influence the health status & human development between developing countries & Australia, DFAT, MDGs, notably, World Vision, global health, the priorities of WHO, the United Nations’ Sustainable Development Goals & promoting global health & human development.

Legal Studies (Unit 4)
Topics include: Court hierarchy, original & appellate jurisdictions of the Courts, the role of VCAT, strengths & weaknesses of dispute resolution methods used by the Courts & VCAT, Court processes & procedures, the adversary & the inquisitorial system of trial & the effectiveness of the legal system.

Maths Methods (Unit 2)
Topics include: Circular, exponential, logarithmic & inverse functions, Newton’s method for finding roots, differentiation (first principles, derivatives by rule & applications in differentiation), anti-differentiation (integration techniques & definite integrals)

Maths Methods (Unit 4)
Topics include: Anti-differentiation techniques, integration by recognition, definite integrals, areas under & between curves, calculation & interpretation of the probability, mean, median, variance & standard deviation for discrete, binomial, continuous & normal distributions.

Psychology (Unit 4)
Topics include: The neural basis of learning, learning theories, concepts of normality, mental health & illness, classifying mental conditions/disorders, using a biopsychosocial framework to consider physical health, mental health & the relationship between stress, physical & mental wellbeing.

Specialist Maths (Unit 4)
Topics include: Setting up, solving & verifying solutions of differential equations, direction (slope) fields, Euler’s method (first-order approximation), kinematics, vector calculus & Newtonian mechanics.

"TSFX is fantastic, I don’t know how I would have made it through Year 12 without them."
Student, Firbank Grammar School

Dates & Times (continued):

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<th>Thu 30 June 2016</th>
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<td>Unit 4 Physics</td>
<td>Unit 3 Business Man.</td>
<td>Unit 3 Further Maths</td>
<td>Maximising Exam Marks</td>
<td>Unit 2 English</td>
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<td>Unit 4 Specialist Maths</td>
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<td>Unit 3 &amp; 4 English</td>
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<td>Unit 4 Legal Studies</td>
<td>Maximising Exam Marks</td>
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Accounting (Unit 3)
Topics include: Recording & reporting, qualitative characteristics of accounting reports, the double entry accrual based system, special journals, general journals & ledgers, stock recording (FIFO method), GST, control accounts, balance day adjustments, depreciation & the preparation of income, Balance Sheet & Cash Flow statements.

Biology (Unit 3)
Topics include: Bio-macromolecules, organelles, plasma membranes, enzymes, photosynthesis, cellular respiration, homeostasis, the nervous, endocrine, lymphatic & immune systems, signalling molecules, signal transduction, pathogens, immunity & rational drug design.

Business Management (Unit 3)
Topics include: The characteristics, objectives, ownership, contributions, stakeholders & internal environments of large-scale organisations (LSOs), pressures that impact on organisations, issues that Australian organisations are currently facing, strategies used to achieve efficient & effective operations, the internal structures of LSOs & the role of management in achieving success; as measured by appropriate performance standards.

Chemistry (Unit 3)
Topics include: Instrumental techniques (focusing on IR, NMR & mass spectroscopy), gravimetric analyses, acid-base, redox & back titrations, the effects of experimental errors on calculated values, properties & reactions of key organic families, IUPAC naming, structural isomers, production of alcohols, esters & carboxylic acids, large bio-molecules, structure & bonding in proteins & DNA, enzymes & biochemical fuels.

Economics (Unit 3)
Topics include: How markets operate to allocate scarce resources, the extent to which markets operate freely in Australia, the nature & purpose of macroeconomic activity, the Federal government's economic goals & their impact on living standards, factors that may have influenced the achievement of these goals over the past four years & the current economic conditions in Australia.

Further Maths (Unit 3)
Topics include: Data analysis (data distributions, associations between two variables, investigating & modelling linear associations & time series data), recursion & financial modelling (using first-order linear recurrence relations to model, analyse & solve related problems involving appreciation, depreciation, compound interest investments & loans, reducing balance loans, annuities, perpetuities & annuity investments).

Health & Human Development (Unit 3)
Topics include: Measuring the health status of Australia's population, determinants that contribute to the variations in health status in different population groups, as compared to other developed countries, the role of nutrition plays in improving health, the National Health Priority Areas, Australia's health system & key initiatives that have been implemented to promote health in Australia – including the Australian Guide to Healthy Eating & the Dietary Guidelines for Adults.

Legal Studies (Unit 3)
Topics include: The principles of the Australian parliamentary system, reasons for changing the law, the role Courts play in making & developing the law, High Court cases relating to law-making powers, implied rights, successful referendums & referendums that have altered the division of law-making powers in the Commonwealth Constitution.

Maths Methods (Unit 3)
Topics include: Solving systems of simultaneous linear equations where there are no solutions, infinite solutions or a unique solution, graphs & transformations of linear functions, functional equations, linear, exponential, logarithmic & inverse functions, sums, differences, products & composite functions, application techniques & select applications in differentiation.

Physical Education (Unit 3)
Topics include: Assessing physical activity & sedentary behaviour, Australia's Physical Activity Guidelines, components of social-ecological models, initiatives & strategies for promoting physical activity, mechanisms responsible for acute responses to exercise, energy systems, fuels, oxygen uptake, fatigue mechanisms & recovery methods.

Physics (Unit 3)
Topics include: Motion in one & two dimensions (straight-line motion, inclined planes, projectile, circular & orbital motion, applications of Newton's Laws of Motion, momentum & impulse, kinetic, gravitational & elastic potential energy), Electronics & photonic (current, electrical potential, resistance, power, switches, parallel & series circuits, meters, cathode ray oscilloscopes, voltage dividers, conductors, thermistors, amplifiers, light dependent resistors, photodiodes, light emitting & laser diodes).

Psychology (Unit 3)
Topics include: The brain, states of consciousness, cognitive processes, models for explaining human memory, the neural basis of memory formation, strengths & limitations of psychological theories of forgetting, techniques used to manipulate & improve memory, research methods & ethical principles associated with the study of the mind, states of consciousness & memory.

Specialist Maths (Unit 3)
Topics include: The absolute value function, restricted circular functions & their respective inverse functions, reciprocal functions, rational functions & other simple quotient functions, partial fractions, complex numbers, vectors (algebra, linear dependence & independence, resolving vectors into rectangular components & vector proofs), advanced calculus techniques & applications.

Students attending a Unit 3 mathematics course receive a comprehensive set of exam notes (which include a large collection of exam topics & sources of error) to use as their Reference Materials in the open book examination.

“Fantastic in all ways! Excellent lecturer and detailed notes. Definitely worth the time.”

“An excellent and thorough presentation and set of notes! I feel like I’ve been armed with a secret weapon for exams.” Student – Braemar College