



# Marlborough Boys' College Newsletter

## APRIL 2018



Year 9 Camp, Nydia Bay



### *From the Principal*

Term 1 has come and gone with many notable highlights.

In our school's strategic focus areas, so many of our students (and staff) have taken advantage of the opportunities provided to them to "be the best that they can be".

For students Jake Pacey and Hamish Timpson and staff member Mary MacDonald the year started in January. As Ota scholarship recipients they travelled to our sister-school Jissen Gakuen in Tokyo for a 10-day educational and cultural experience. The re-launched year 9 induction camps at Nydia have been regarded as a huge success.

Academically we celebrated the very positive improvement in Year 13 level 3 results. While the performance of top academic students in year 13 has improved in recent years the overall pass rates at level 3 have lagged the improvements at level 1 and 2. In the 10-year period 2007 – 2016 the average year 13 level 3 pass rate was 62% with a high of 71% and a low of 51%. Last years' year 13 level 3 pass rate of 84% was very encouraging for all stakeholders in the school and reflective of cumulative initiatives that have been undertaken in recent years.

We celebrated the achievement of all boys who achieved excellence and merit passes in NCEA level 1 and 2 by awarding Academic badges. Students who achieved 50 or more excellence credits at level 1 or above were Eric Bekker (as a Y10 student), Bright Asiamah, Elijah Cholmondeley, Hunter Davies, Alexander Gasson, Vinnie Gray, Kristopher Godsall, Finlay Gilmour, Ashley Ireland, Felix Jackson, Harry Jackson, Samuel Lee, Samuel Lewis, Jacob Morriss, Jacob Sawers, Sam Smith, Lotu Solomona, Charlie Taylor, Bradley Thomas, George Varney, Joseph Westend, Jack Winstanley and Jonty Zydenbos. Students who achieved 50 or more excellence credits at Level 2 or higher were Eddie Ave, Mitchell Blake, Jacob Boreham Wright (as a Year 11 student), Jakeb Brown, Danyon Croker, Milan Cunliffe-Post, Jean-Luc Hauswirth, Steven Simpson and Joshua Webb. The prestigious Leo Trophies for the top performing Level 1 and 2 students in NCEA were awarded to Jacob Boreham Wright and Felix Jackson who were joint Level 1 winners and Eddie Ave at Level 2.

I have been encouraged by the enthusiasm of staff to many of the professional development opportunities and initiatives being undertaken in response to the visits to other schools around





2017 Academic Prizewinners, Leo Trophies Level 2, Eddie Ave  
Level 1, Jacob Boreham Wright and Felix Jackson joint winners

New Zealand last year and to teaching in the new flexible learning environments in the school.

In leadership, our Head Boy James Hammond and deputies Eddie Ave and Campbell Gill are leading a team who are providing valuable opportunities to our students. 18 potential prefects attended a practical and interactive leadership training programme in Wellington. They were also hosted at Parliament by MP Stuart Smith. I wish to commend those students who are helping run the Year 9 pastoral programme on Thursdays during period 1 and others who are undertaking other areas of school service.

In sport and the arts, the diversity of opportunity provided to students has been exceptional and I thank all those staff and community members who have supported our students during term 1. During summer sports week with funding support from the Old Boys' Association, I travelled to Nelson to support our triathlon, aquathlon and sailing teams. I also travelled to Wellington for softball, Palmerston North for volleyball and Twizel for rowing. I enjoyed meeting students and their coaches and families and learning first-hand the commitment required and challenges that many of them face.

Reporting wise the Ministry of Education requires in term 1 each school to present a charter and annual plan and a variance report on the preceding year's annual plan. Please see link to <http://www.mbc.school.nz/charter-and-2017-action-plan>

You will be aware by now of the review of the co-location process. We await news on this process from the Ministry of Education at the start of term 2. I can assure you as a school we are better off from our involvement to date. 33 staff last year visited other schools around New Zealand observing different school curriculum (both the what and how to teach). This has had a positive impact on what is happening for students today. So too is the extensive professional development being provided by the MOE. I have been encouraged by the enthusiasm of staff to many of the professional development opportunities and initiatives being undertaken in response to the visits to other schools and to teaching in the new flexible learning environments in the school.

W. Hegarty  
Principal

### University of Otago, Sheilah Winn Regional Festival of Shakespeare in Schools Results

Winners of the 5 minute scene to perform at Nationals over Queens Birthday weekend—  
Justin Cook and Kodi Rasmussen for a scene from Two Gentlemen from Verona  
Most promising actor: George Glover  
Best on stage connection: Vinnie Gray and Sam Lewis  
Most effective use of stage techniques: Tane Anderson, Mannie Tai, Jonty Zydenbos,  
Max Cavill-Sheriff, George Glover, Paul Slovak



## Winter Camp 2018

**Monday 11 June –  
Friday 15 June**

Information and application forms have been sent home to parents of relevant Year 10 form classes. If your son wishes to attend Winter Camp please complete the application form and return as soon as possible to the Finance Office.

## DATES TO REMEMBER

### MAY

- 17 Junior Social 7pm
- 22 Shirley Boys Exchange  
(Chch)
- 24 Work Day

### JUNE

- 1 - 4 Mid-Term Break  
Queen's Birthday  
Weekend Inclusive
- 18 Careers Evening
- 20 Y9-Y13 Conference  
Day, Day 1 (see page 3)
- 26 Y9-Y13 Conference  
Day, Day 2 (see page 3)

The College's Daily Notices  
are available via the quick link at  
[www.mymbc.school.nz](http://www.mymbc.school.nz)

# A Word from the Head Boy

Kia Ora,

Already one term in, the prefect team and I can look back on the last 11 weeks and feel proud of our achievements; however this is only the first step in making Marlborough Boys' College a better place. When I was appointed Head Boy I set myself the goal of making the college a place of opportunities for every single student, no matter what interests them.

Term 1 has been a flurry of activity for our prefect team as they have juggled house BBQ's, year 9 camps and inter-house competitions, all on top of their personal studies. I thank the prefect team for stepping up this term and I hope the excitement flows on into next term.

The academic prefects have worked tirelessly to introduce a new initiative – Peer Tutoring to provide free academic support to students. The sports group have been busy organising the many competitions this term and are working towards some exciting new activities for terms 2 and 3. The cultural prefects are organising a performance of different cultural groups from all three Marlborough colleges along with a week full of different lunchtime activities. This is planned for later in term 2 and should be a great opportunity to showcase the students' talents.

The student council is up and running with representatives from all year levels. They ran a Fun Day in week 10 in support of 'Shave for a Cure'. Well done to those who showed up in orange and took part in the activities at lunchtime. They managed to raised over \$1500 for Leukaemia and Blood Cancer New Zealand Foundation.

In term 2, I am looking forward to seeing boys getting involved in the many inter-house competitions planned. Opportunities include debating and speech competitions and the Junior Winterfest.

I am looking forward to seeing the boys getting involved in all the opportunities presented to them in the coming terms and making the most of their time at Marlborough Boys' College.

James Hammond, Head Boy



## Board of Trustees

The MBC Board Membes are:

Sturrock Saunders	Chairman
Trish Grammer	Trustee
Louise Miller	Trustee
Melissa Cragg	Trustee
Lynette Rayner	Appointed
Johnny Joseph	Co-opted
Murry Thornley	Staff Rep
Filimoeuile Moatafotu	Student Rep

Board Meetings are held on the third Thursday of the month. Parents are very welcome to attend - no voting or speaking rights. The next meeting is scheduled for Thursday 24 May 2018.

## Conference Days

### Parent / Student & Teacher Meetings

On 20 and 26 June (Week 8 and 9 of Term 2) we have a scheduled Parent / Teacher Conference Day where the progress of students can be ascertained and goals for the remainder of the year set. There will be no formal school lessons on this day but our expectation is that parents will attend these important interviews along with their sons who will be in school uniform.

All parents should expect to receive a letter by email or post explaining the appointment booking process.

## CAREERS EVENING

**Monday 18 June 2018**

**Clubs of Marlborough,  
Downstairs Hall**

**6.30 pm to 8.30 pm**

The annual Marlborough Careers Evening, hosted by Marlborough Boys' College, will be held on Monday 18 June 2018.

The event demonstrates our students' commitment to finding out about possible career and training options. The training providers that come reflect the wide range of options students have. One section of the Stadium is reserved for Industry Training Organisations. This group is becoming increasingly more involved with providing courses for Secondary Schools as the Vocational Pathways become more developed. Students will be able to see the link between what they learn at school and industry.

We also have the universities, polytechnics and private training providers. Students have a wide range of choice when it comes to Certificate, Diploma and Degree courses.



# International Students

This year MBC has welcomed three fulltime students from Jissen Gakuen, Japan; Shinji Mikame, Yoshiyuki Hara and Takemi Ichihara. We also welcome Reo Tsujiuchi from Ikubunkan High School, Japan, who is here for three terms, and Jack Yang, returning for a second year from No.9 School, Ningxia, China. The boys have settled in well to the Kiwi way of life and it has been a pleasure to support them as they ease into the MBC curriculum.

Shinji and Reo have been selected to play for the MBC first X1 football team.

In March, MBC welcomed students from Hakuba High School, Nagano Prefecture, Japan. This province hosted the 1998 Winter Olympics. These students really enjoyed their two weeks at MBC and the International Department would like to thank the MBC host students and their families; Connor Auty (Gen), Callum McLean (Azu), Jayden Bassett (Kazu), James Hammond (Satsu, also Head Boy at Hakuba!) and Dregan Baker (Shin), all of whom provided a friendly kiwi experience for these boys. Jake Pacey and Hamish Timpson also stepped in to help when James had other school commitments during the school day. Thank you also to Mrs Quigley, Mrs Olliver and the teachers whom supported the Hakuba students in the classroom. The Hakuba High School is keen to become a sister school to MBC and would like to send another group of students at the same time next year.

The Jissen Gakuen Summer Exchange returns on 29 August for a week, about 33 boys will be travelling to MBC. Homestay families are required for this exchange, see below for details.

Fiona Mark

International Administrator



Whites Bay Picnic February 2018 to welcome all overseas students

## 2018 Homestay host families required - short and long term

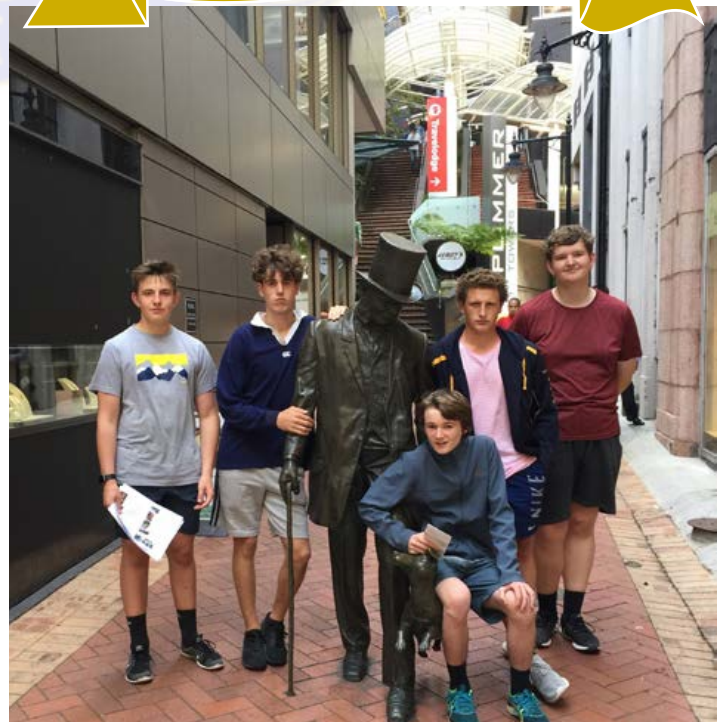
We are seeking home-stay host families who can provide a comfortable, safe and welcoming temporary home to visiting International Students for 1-4 terms in 2018. Short Term homestays are required for Jissen Gakuen for 29 August to 6 September 2018 and for overseas students arriving for Term 3.

A weekly financial payment is made and all home-stay hosts are police vetted.

For more information please email [fionam@mbc.school.nz](mailto:fionam@mbc.school.nz)



## Grip Leadership Conference 2018



Senior students out and about on the Amazing Race as part of the Grip Leadership Conference 2018 in Wellington

# Sports Report

Term 1 was hectic as usual on the sporting front here at MBC; we had teams completing all across New Zealand in eleven different codes in Regional, South Island and National Competitions.

It started in week 2 with the school swimming sports, with the following boys winning their age group: Year 9 - Thomas Loza; Year 10 – George Trolove; Year 11 – George Glover; and Senior – Connor Reed.

On school Athletics day, we saw some fantastic individual performances, as well as plenty of house spirit and competition. Alex Dawson provided the highlight at the athletics day with a record breaking 100m record. The individual winners at each age group were U14 - Charles Tupouto'a, U15 - Gus Varney, U16 - Jack Wilkin, Over 16 - Lotu Solomona/George Varney.

This led to the Tasman Athletics champs where we were well represented with over 30 boys completing in Nelson, fifteen of whom qualified for the South Island Champs in Dunedin. To qualify the athletes had to finish in the top two of their event. The boys who won their events were Elevisi Kaloni in U15 Javelin, Jake Pacey in U14 Shot Put, Charles Tupouto'a U14 High Jump and Discus, Keelan Murrell in U19 200m, and Alex Dawson U19 100m. At the South Island champs, Alex won the U19 100m in a time of 10.96sec.

Our Tennis team won the Tasman champs and after some great performances they finished 5th in the South Island champs in Timaru.

The 1stXI Cricket team has had some creditable performances this term, but unfortunately lost to Nelson in the Gillette cup game.

Our Softball team travelled to Wellington to play in the Nationals; the team went through pool play comfortably enough, which was great because of how young they are. They just missed making the top four in NZ and finished a very credible 5th.



William MacDonald hitting out at the National Softball Tournament

The Swimming Team went to Rotorua for the NZ division 2 Swimming Championships. Thomas Loza, Ollie Mandeno and George Glover all swam personal bests at the event. George won 3 Golds, 1 Silver and 2 Bronzes in his events.

The Mountain Biking team travelled over the hill to compete in the Tasman champs with over 25 boys. Highlights were: Under 14 Liam Nicholls 2nd and Jonty Burfoot 5th, Under 16 Jack Sheridan 2nd, Fergus Greer 4th. Nationals was in Rotorua where they boys did really well against the best in NZ, with Jack Sheridan getting 4th in U16s and Cameron Clemett getting 7th in U15.

Our Volleyball team has been busy competing in tournaments in Nelson, Christchurch, Blenheim and the nationals at Palmerston North. A highly competitive and cut throat sport at secondary school level, the team has equipped themselves well and had some narrow losses to high calibre teams. The team ended up competing in Division 3 at the Nationals.

Our Rowing team competed at the MAADI cup at Lake Ruataniwha. Some good results were achieved. Overall MBC crews made five A grade finals and 3 B grade finals. Ethan Alderlieste, Lachlan Stevens, Kris Godsall and Kobe Miller were selected to trial for SI Secondary School crews.



A Final- Under 18 Novice double, Aiden Neal and Rhys Salvador

At the time of writing, the Sailing Team were travelling to compete at the Nationals. They finished second at the South Island qualifying competition, missing first by one point. They are seeded in a good position and are hoping for a strong showing at Nationals, we wish them all the best.

The Multi Sport team completed in both the Tasman and National Triathlon at Rabbit Island. The boys performed very well, including Connor Guillemot who won the Tasman U19 event.

The Touch Rugby team finished second in the Tasman champs - at the South Island champs the team played very well to earn a wild card to nationals, which MBC has not been to for quite some time. Keelan Murrell made the NZ Under 18 boys Touch Squad.

The House Competition is well under way with Awatere currently leading, but it is very close between the four Houses. Lots of events are coming up next term.

For more information, results and photos check the school facebook page - <https://www.facebook.com/MarlboroughBoysNews/>

Josh Harrison

Teacher in Charge of Sport



# PED 300 Cycle Tour

The annual PED300 Cycle Tour through the Molesworth and St James cycleway took place in week 9 this term. The Tour is self sufficient which means the students have to carry all their gear including tents, food, cookers and clothes. It would be fair to say that some packed better than others! Along the way we bumped into a group of Americans who were tramping the High country and so a game of baseball ensued during the first evening. Suffice to say, the Kiwis won. The next two evenings saw the boys' retire to their tents early as starts in the morning began early, especially on the last day rising at 5.30 a.m. and beginning our ride in the dark. Favourable winds were experienced through the tour and the sun shone. The students showed organisation, team work, leadership and, at times, a stoic attitude under the physical work load.

All students passed the Tour for their Level 3 NCEA course and gained valuable knowledge of themselves and what they can achieve through hard work.

Gareth Pugh



## Model UN

A group of students from Y9 and Y10 went over to Nelson to participate in the Model United Nations this term.

Each student represented a country, as its delegate, as resolutions were proposed, amended and debated.

This year's focus was on Internet use and the Use of Space. A new addition to the programme was a problem solving activity, taking either South Korea or North Korea's side – seemingly trying to avoid World War 3, as the USA and Russia got involved in the scenario – finally averting a crisis through negotiation and peace talks.

The boys all got involved and it was impressive to hear their almost encyclopaedic knowledge, not only of their countries, but also of world affairs. It was great to see them stand up in front of a large group of their peers and give their views.

Feedback from the boys went along the lines of the below:

"It was fun"

"Excellent opportunity"

"Interesting"

"Learned heaps about the structure of the UN"

The Model UN is run in Nelson every year and in other centres around the country.



## Student Work Day

Thursday 24 May 2018

We expect **every** MBC student to participate in Work Day by finding a four hour job for 24 May; a suggested rate of pay is \$30 for 3-4 hours work.

Some ideas are:

- \* An autumn clean-up, gardening, lawn mowing, cutting firewood, tidying up the section
- \* Commercial or industrial employment
- \* Work on farms or horticulture units
- \* Cleaning of houses, windows, car

If students choose to complete their Work Day during the term holiday or on a weekend and pay their \$30.00 to the Finance Office, they will be permitted to take the day off from College on Thursday 24 May while other students work.

Any student's \$30 contribution can be paid to the Finance Office before 24 May.

### PLEASE NOTE:

**Boys WITHOUT WORK** will be required to attend a supervised programme at school in full school uniform. We will be checking all unexplained absences with the usual consequences.

# Mathematics

e-asTTle



## Y9 e-learning resources

Y9 students are using some useful e-learning tools to track their learning and plan for their next learning steps in Mathematics this year.

One is e-asTTle – the student log in page is at <https://e-asTTle.education.govt.nz/StudentWeb/login.faces>. We are using e-asTTle to establish an approximate level for your son at the start of each unit of work and then again at the end to track his progress through the curriculum objectives. You can access your son's reports through this website – all you need is his username and password.

The second is Mathspace – <https://mathspace.co/> - a NZ curriculum aligned adaptive programme that offers lessons and activities to support your son's learning goals. Some tasks will be set by his teacher, but your son can also use this site at any time at home to further his learning in any area in Mathematics. Again, he has a username and password that you can use to access this site. From there, you can get reports sent to you by providing your email address – you will get your own log-in details sent to you when you register.

## Y9 "licence" for independent learning

The Mathematics faculty have introduced independent learning licences. These mimic the NZ drivers' licence, in that there are beginner, restricted and full licences. The students must demonstrate our school values of RIPR – Respect, Involvement, Pride and Responsibility to be allowed to progress in their licence stages. A green (full) licence means that we know that they will "be the best that they can be" independently, without reminders or monitoring from the teacher. Part of the system is that the students must take responsibility for having their licence in every lesson – you can ask your son to show you which card he is currently on.

## E-learning support for parents

We recently held a parents evening for Year 9 parents to give some ideas on how to support their son with their Mathematics learning and also show them how to access and use the above programmes, along with other useful sites such as Khan Academy - <https://www.khanacademy.org/> and Math Antics - <http://www.mathantics.com/>.

We hope to hold further evenings in term two for Year 10 and senior students' parents, so look out for your invite and please come along.



## The Computational and Algorithmic Thinking (CAT) Competition.

This was recently held with about 40 students from Y9 through to Y13 participating. The results are not in yet, but the feedback from the boys was positive and they seemed to enjoy the challenge. A sample question is on page 10 - have a go!

Mathletics

Dear Parents, The first term has nearly come to an end and the Mathematics Faculty is delighted with the use of the website called "Mathletics." Boys work toward gaining Certificates by earning a minimum of 1000 points each week. So far, we have given out more than 180 Certificates made up from over 460,000 participation points from only 500 hours of activity. That is an average of 2 hours per student improving their knowledge online each week. The average improvement is an increase of 17% just by using Mathletics.

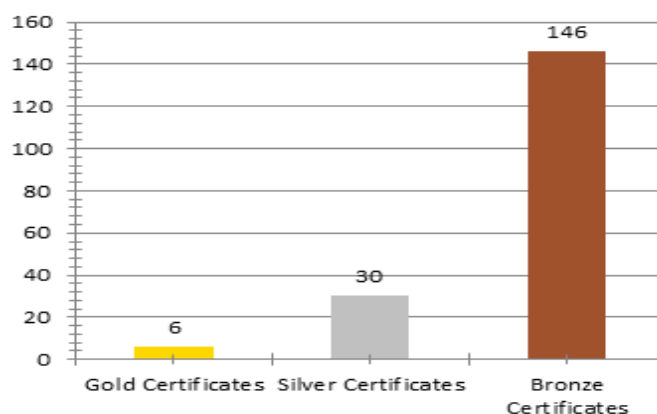
Each boy in classes that are participating in the Mathletics programme has been issued, by their mathematics teacher, with their individual user name and password. Please get your son to share this information with you and keep the password safe – it is valid until end Jan 2019. To follow your son's progress on Mathletics then register as a parent, (you have already paid via the office), by going to the website <http://nz.mathletics.com/parentslogin/>. You will be required to enter your son's username and password in order to gain parental ID and access to the site.

We hope that your son enjoys and benefits from using this website and that you enjoy encouraging him to collect certificates and gold bars along the way. No longer is there an excuse of 'no homework'!

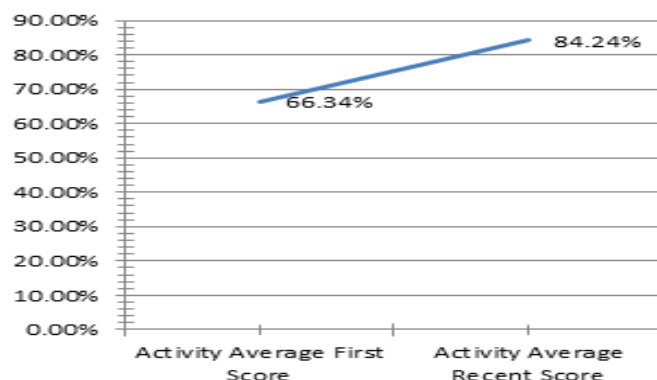
Many thanks for your support.

The Mathematics Faculty.

## Certificates Summary



## Activity Improvement





# Year 9 Camp - Nydia Bay

It has been a bit of a process getting Year 9 Nydia Bay camps back up and running but in 2018 we managed that feat, running the first Year 9 camps since 2010.

Overall, the camps have run extremely well and have been enjoyed by the majority of students and all of the staff. The addition of Prefects to these camps has been beneficial and the staff and students have been hugely impressed with their efforts.

The new kayaks and paddle boards were a hit with all who attended the camp and we would like to thank the MCCF, Student Council and Redwood Trust for their generosity in helping us purchase these items.

Of course, there are improvements we will be making to the camp for future years after getting great feedback from the students and staff. The most pleasing thing from an organisational point of view is that our primary goal of getting the boys building relationships with their form classes was a success, with 90% of students reporting much better peer relationships after attending camp.

The organising team are also very happy with the rate of attendance for the camp, coming in at 95%. We would like to thank parents for their support with this.

A few highlights from the camps would have to be seeing a stag feeding on the front lawn of Nydia Lodge in the middle of the night, witnessing the boys catching snapper off the beach then filleting, cooking and eating them, spending hours in and around the water, seeing how keen the boys were on learning to sail, seeing boys step outside their comfort zones and accept challenges, boys pushing themselves on the tramp, the teams coming together to become a cohesive unit, hearing and seeing boys enthusiastic about the outdoors and seeing boys do things they had not done before.

There are many people who need thanking through this whole process: the parents for their support; camp staff for being

awesome; office staff for their endless work and help; Prefects for their efforts; Mr Molyneux for answering countless questions; the Board of Trustees, Student Council and MCCF for their financial contribution; Pelorus Tours and Roadtrips Marlborough for their transport help; DOC for the use of Nydia Lodge; Pak'n Save for the massive amount of food and, most importantly, the students who gave their best on camp and came away with a sense of achievement.

Time for a well-earned rest for everyone involved, then bring on 2019.

Thanks

Chris McMurtrie (Nydia Camp Co-ordinator).



Lennox Crowe and Dom Henry with the catch of the day.  
Paul Ferguson ex MBC Head of Faculty "supervising".





# News from Science

## Little Scientists' - Light the Way

Students from St Mary's School were eager to learn from Marlborough Boys' College Physics students. However, it seemed that the Physics boys also learnt from the little scientists in neighbouring schools.

The classes in St Mary's School are studying "Light the way". They wanted to learn more about light using scientific lenses and how the eye works. Students from a Year 13 Physics class went to several classes twice during Week 9. They shared their scientific knowledge about the structure of the eye and how light travels through different objects. These young "teachers" were inspired by the amount of knowledge the St Mary's pupils has as well as their passion.

Students also enjoyed the light box demonstration, that showed which colours are combined in white light. Some of these budding scientists demonstrated a surprising depth of knowledge, which was very encouraging for year 13 students.

Thank you to Eric Bekker, Milan Cunliffe-Post, Jean-Luc Hauswirth, Steven Simpson and Kurt Smart for their great contribution to increase the physics knowledge of some St Mary's pupils.

Mrs McKendry



Year 13 Physics students sharing knowledge with St Mary's School pupils

## Grapes and Science

Twenty enthusiastic young students participated in a scientific project undertaken by Plant and Food Research scientist, Dr Damian Martin.

They were asked to process grape bunches just prior to harvest on three separate occasions, on the same vineyard plot. The bunches were cut by students into single berries to separate them. Then the individual berries were placed in sugar solutions of different densities to sort them. If they floated, they were unripe, if they sank they were ripe, because ripe berries are denser (more sugary) than the sugar solution. Students learnt from Dr Martin about the grape sugar measurement called Brix\* (how much solid sugar is in a liquid solution) and how it affects the fermentation process in wine making. The results of density separation were consistent with predictions. However, it clearly showed the effect of different harvest times and differences in ripeness between bunches, even on the same grapevine. The purpose of this study is to understand whether the grape crop becomes more uniformly ripe if harvest is delayed.

Students had a chance to be part of a research project. It was quite an undertaking because students had to make 3 visits.

The relationship with Plant and Food Research was developed by Mrs McKendry during her Royal Society Science Teaching Leadership programme last year.

Mrs McKendry



Students worked with scientists to learn about ripeness in grapes



# NZQA Fees

The College acts as agent for the collection of NZQA Fees.

The NZQA Fee of \$76.70 has now been applied to the accounts of all Year 11 - 13 students and of Year 10 students who will be sitting NCEA exams at the end of the year.

For students who sit Scholarship examinations, there will be an additional charge of \$30.00 per subject and this will become part of their total required Fee.

For Year 10 students who will not be sitting external exams, we will "bank" any credits achieved this year and report them in 2018, thus saving the need to pay the fee this year.

If applicable, the NZQA Fee will need to be paid in full to the College by Friday 17 August 2018 so that we can include it in the processing of our bulk payment to NZQA. Our accounts section will apportion payments by those families using automatic payments to ensure that the amount is fully paid by 17 August 2018.

Although we report all results to NZQA, if the fee is not paid in full, a student's results will not be credited and he will not be able to sit external exams at the end of the year. Payment of the fee at a later time may incur an additional \$50 late fee imposed by NZQA.

Financial Assistance can be approved for families who meet at least one of the following criteria:

- be receiving a Work and Income or Study Link benefit (benefit-based applications)
- have a joint family income that would entitle you to receive a Community Services Card (income-based applications)
- be a fee-payer with two or more children who are candidates, irrespective of family income (multiple candidate applications), where the total fees you would have to pay would otherwise be more than the \$200 multiple candidate maximum.

You cannot claim financial assistance for international fee-paying students.

Full information and application forms are available at [www.nzqa.govt.nz](http://www.nzqa.govt.nz)

Application forms are also available at the College. Please return completed forms to the College as soon as possible.

## Caves - Sample question - CAT Competition

Five explorers, Arthur, Betty, Cameron, Dmitry and Evelyn, are trying to find their way out of an underground cave system. They are trapped in a central chamber, from which there are 37 tunnels leading out. These tunnels are numbered 1,2,...,37 clockwise around the chamber.

Only one of these tunnels leads out of the caves; the other 36 tunnels all lead to dead ends. All 37 tunnels take the same amount of time to explore.

Each explorer has their own strategy to find the exit:

- Arthur starts at tunnel 1. Each time he tries a tunnel that leads to a dead end, he moves clockwise to the next tunnel and tries again.
- Betty starts at tunnel 2. Each time she tries a tunnel that leads to a dead end, she moves two places clockwise and tries again (i.e. she skips the next tunnel and tries the tunnel after).
- Cameron starts at tunnel 3. Each time he finds a dead end, he moves three places clockwise and tries again (thereby skipping two tunnels each time).
- Dmitry starts at tunnel 4. Each time he finds a dead end, he moves four places clockwise and tries again.
- Evelyn starts at tunnel 5. Each time she finds a dead end, she moves five places clockwise and tries again.

The exit to the cave system is at the end of tunnel 17. Who is the third person to leave the cave system?

(E-mail [christinew@mbc.school.nz](mailto:christinew@mbc.school.nz) if you want to check your answer – or the (slightly) cryptic clue (for students) is "Riverdale")

## WANTED

Preserving Pickles  
and Jam

Unit Standard Level 3



We would appreciate your donation of any spare jars and lids.

Glass jars and screw on lids will be prefect.

## Sponsors - thanks to the following organisations

MCCF	Pak'n Save	Warehouse Stationary Blenheim	Air Rescue and Community Services
PTA	Pelorus Trust	McDonalds Family Restaurant	Ranui Construction
Old Boys' Association	NZ King Salmon	Blenheim Subway - Stadium 2000	Heartland Bank
Redwood Trust	Ritchies Bus Services	Aotea Electric	Rata Foundation
Pub Charities	ASB Bank Blenheim	Lions Foundation	Aquatic Centre at Marlborough Lines Stadium 2000



## MARLBOROUGH BOYS' COLLEGE

5 Stephenson Street  
Blenheim 7201  
New Zealand

Telephone: 03 578 0119  
Email: [office@mbc.school.nz](mailto:office@mbc.school.nz)  
[www.mbc.school.nz](http://www.mbc.school.nz)