Welcome back to the final Term of 2016. Term 4 is always busy with many major school events scheduled and of course, many exams and assessments. Although Christmas is fast approaching, it is important that students remain focussed on their school work and their learning right to the very last day. Parents are able to assist their children to maintain this focus by ensuring that they attend school every day and contacting the school if any concerns arise.

I am very pleased to be back at school after my extended holiday. I would like to thank Matt Newell who was Acting Principal and also all the Deputy Principals for the smooth running of the school in my absence. I enjoyed my trip to Europe immensely as I was able to meet up with one of my sons who is currently living and working in London.

On my way home I visited a friend who is a teacher in Hong Kong and was lucky enough to be invited to visit her school. The school in Hong Kong was very similar to North Rocky High in many ways, although it did have a wonderful view of Hong Kong harbour! School begins at 8:00am in Hong Kong and does not finish until 3:30pm so the students were very envious of our shorter school day although they did not think they would like the hour long lessons we have - their lessons are only 35 minutes long for each subject!

The students I spoke with were very interested in what students in Australia were learning and also asked questions about whether we had kangaroos and koalas in the school grounds. I have found that students are mostly the same across the world and the Form 6 (Year 12 students) in Hong Kong were busy preparing for final exams and university entrance. Nearly every student in Hong Kong aspires to attend university and the competition to achieve the best results possible is significant. I was very impressed with the students’ English language skills as for most of these students English is their third language!

Best wishes for a strong finish to the year to all North Rocky High students. Expectations remain high for all aspects of school life and in particular, our focus areas of Attendance, Writing and Year 12 Exit Outcomes.

JANET YOUNG
PRINCIPAL

Welcome back Year 11!

I hope your holidays were relaxing and re energised you for this term. Leadership camp was awesome. There were fun times had on the water slides, building resilience through leadership activities and adventuring on kayaks.

This term we will choose our student leaders from nominations this week. Senior shirts and jersey order form have been given out and the due date for payment is the 28th of October. Enjoy the term and work hard. Christmas is just around the corner.

SENIOR MATHEMATICS AND SCIENCE DEPARTMENT

Welcome back to term 4!

Our annual Year 11 Maths B, Physics, Biology and Chemistry excursion occurred at the end of last term – and what an experience it was! We started at Dreamworld, and for the first
time we went on two tours - ‘Welcome to Country’ and ‘Behind the Scenes’. The guides were exceptionally knowledgeable and were impressed with how interactive the students were in discussions about Biology aspects that arose. We then completed the Physics program at Dreamworld – and yes, this involved students going on the rides and collecting data on accelerometers.

On our second day, students completed the Maths B component of the excursion at White Water World. We were very fortunate that the day was warm and clear, so going on the water rides to collect data was enjoyable. That afternoon we headed to Currumbin Wildlife Sanctuary and explored behind the scenes of feeding and care of the animals.

The final leg of the journey was visiting Sirromet Winery for our Chemistry students, which occurred the morning of our return trip home. We did have a nice surprise on arrival – there was a car show on at the same time as our visit! The wine tour was really interesting – and the enthusiasm and dedication of our guide was inspiring!

Some more exciting news: two of our Year 11 students, Felicity Finlayson and Sarah Coker, were selected for the QUT Vice Chancellor’s STEM Camp which occurred during the September holidays. Felicity has kindly shared some information about their experiences below.

**QUT Vice Chancellor’s STEM Camp**

Over the second week of the school holidays, Sarah Coker and I were very privileged to participate in the QUT Vice-Chancellor’s STEM Camp. The camp involved 160 Year 11 students from all areas of Queensland working in teams with leading QUT scientists across ten different real-world projects. Projects explored some of the major challenges and opportunities facing our society such as the next wave of advancements in nanotechnology, robotic surgery, sustainable agriculture, biofabrication and next generation virtual reality. While Sarah programmed drones to fly autonomously through obstacle courses, I learnt how to make circuit boards, constructed a robotic arm and programmed the arm to extract a piece from the Operation game board. The real-world applications of each project and the impacts they will have on society are truly marvelous.

Outside of our research projects, we participated in a number of events such as a QUT Real World Futures event led by Queensland Chief Scientist, Dr Geoff Garrett; STEM Camp’s Got Talent; a movie night at The Cube, one of the world’s largest digital interactive learning and display spaces; a future studies and career fair; a Street Science show, as well as talks from a number of guest speakers. While our nights were spent at social activities and forums, our mornings included an optional morning run along the Brisbane River for boarding students. The camp concluded with a STEM Camp Showcase Breakfast where we discussed our projects with fellow students, researchers and industry representatives from companies such as Boeing.

Overall, the QUT Vice-Chancellor’s STEM Camp was an amazing opportunity to experience university life in Brisbane, to use world-class facilities and to meet so many like-minded students, researchers, industry representatives and a few politicians.

**Felicity Finlayson**

Congratulations Felicity and Sarah for being selected to represent our school at such a prestigious event!

**Nadene Housman**

**Head of Department – Senior Mathematics & Science**

**JUNIOR SCIENCE**

In Term 3 Year 7 Science, we studied Forces and Simple Machines. For their assessment task, students were required to build a balloon car racer from recycled products and test how far their vehicle could travel. They were then required to make modifications and retest their vehicle. As a culminating activity we held a competition for all of Year 7 where they could race their modified balloon cars against each other. For many, the weeks of testing and modifying took their toll and not many cars survived the gruelling pressure! Ultimately, only five groups or individuals were brave enough to enter their battered and much tested vehicles in the race for Greatest Distance Travelled or Fastest Car. Well done to Cheyanne Davis and Nakita Petersen, Cody Wincen and Piper Delahoy, John Juguilon, Seth Heald and Jon Leefe for entering their vehicles. The winners of the car that travelled the greatest distance were Cheyanne and Nakita with an impressive distance of 11.6m. John Juguilon won the prize for the fastest car leaving any contenders well behind in a cloud of dust! Well done to all!

**Cheyanne & Nakita’s winning car**

**John Juguilon’s winner for fastest car**

**Greatest Distance**

Many students enjoyed the challenge of this task. It was a great task to develop design and technology skills through Science.
Our Year 8’s were involved in designing a Rube-Goldberg Machine to meet a certain design brief. Students used their Science knowledge of energy to make a ping pong ball land in a basket using various energy changes along the way. Students were given room to be creative and innovative throughout the task and some great designs were forthcoming.

Year 9 Science students were required to demonstrate their knowledge and understanding of Science as a human endeavour by designing a brochure to encourage members of the community to vaccinate. They had to explain the Science of the immune system as part of this task.

It was a great term for Junior Science with some good quality results from our students. Looking forward to continued improvement and skill development with our students throughout Term 4.

**Vicky Nielsen**  
*Head of Department - Junior Science*

### SPORTS REPORT

A big congratulations to McKenzie Howard (Yr 7), Tiana Richards (Yr 7), Caliah Saltner-Hill (Yr 9), Laila Howard (Yr 12) and Rebecca Patterson (Yr 12) who all finished Top-3 in the Capricornia Athletics trials and qualified to attend the State Athletics titles in Brisbane later this year.

Congratulations to our Girls Touch teams who performed really well in the interschool Touch challenge. 2 of our three teams competing made the semi-finals and a big thank-you must go to Mrs. Doherty and Mr Mirls for coaching the sides.

The North Rocky Hawks teams had an outstanding season this year as you can see by the results below. A huge thank-you to Mrs. Challacombe, Mr. Hoffman, Mrs. Race, Fred Savage, Nathan Savage, Ange Savage, Harley Saunders, Malcolm Mann, Mrs. Mann, Mrs. White, Mr. Harmsworth, Mrs Grant, Mrs Wheatley and Mr Davey who all assisted with teams through coaching, managing or First Aid positions.

- **Year 7** – Undefeated Premiers – Defeated SBC2 by 30-16 in the grand final – **Man of Match** – James Doyle
- **Year 8’s** – Grand-finalists – Lost grand-final 16-14 to SBC2
- **Year 9’s** – Grand-finalists – Lost grand-final 24-12 to SBC2
- **Year 10’s** – Premiers – Defeated SBC2 by 24-22 in the grand-final – **Man of the Match** – Bruce Grant
- **2nd XIII** – competed admirably in the Open 3rds competition and finished in 5th place.
- **1st XIII** – Premiers – Defeated TCC2 in golden point extra time in the grand-final 14-10 – **Man of Match** – Cayden Tull

Congratulations to Cooper England and Kain Charlesworth on achieving rep honours in schoolboys cricket.

Congratulations to Taia Ardley and Paige Kieman for achieving CQ selection for girls rugby league.

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### Date Claimers

Girls Futsal Interschool competition commences in Week-2 on Wednesday afternoons.

All Schools Cup for Hockey in Toowoomba on 23, 24 & 25 October 2016.

**Katrina Druery (NRHS school rower) with Sasha Belonogoff (Rio Olympic Silver Medalist).**

### ITEMS FOR TENDER

- **3 Phase Metal Lathes**  
- **Single Phase Metal Lathe**

All items are ‘as is where is’. No warranties are implied or given. Items will not be sold if tenders offered are deemed to be unreasonable. Tender forms are available from the office. Items can be viewed Thursday 20 October 8:00am – 3:00pm.

Tenders close 4pm 28 October 2016.

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### 2017 BURSARIES

Bursary information for Year 6 students entering Year 7 in 2017 is now available from Primary Schools or by contacting our office at North Rockhampton High School.

Bursary information for Year 9 students entering Year 10 in 2017, are now available from the Year 9, Year Coordinator and also Student Services. Applications close Friday 26 October 2016.

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### SCHOOL DENTAL VAN

It is that time of year again: the School Dental Van is now at the school. If you wish for your child to be seen, then please ensure your child has returned their consent forms for a dental check-up. If you did not receive a form, then please collect one from the dental van situated near the basketball courts off Simpson Street.

You can contact the Dental Van on 0409 574 276 Monday, Tuesday, Thursday or Friday, between 8am – 4.30pm.

A good link about the effects of sugar is:
Self care:
- Twice daily tooth brushing with a fluoride toothpaste and a soft toothbrush will help protect against tooth decay.
- To have a healthy smile, maintain a healthy diet by drinking plenty of tap water, limiting sugary foods and drinks and by choosing healthy snacks like fruits, vegetables and cheese.
- Drink fluoridated water if it is available to help strengthen your teeth.
- Regular dental check-ups and care are important for oral health.

Diet:
- Foods and drinks that contain high levels of added and natural sugar contribute to tooth decay.
- The more often sugary foods and drinks are eaten the more likely you are to experience tooth decay.

P&C

The next P&C meeting will be held Monday 24 October at 5:30pm in the Administration Building. All welcome.

CHECK OUT OUR FACEBOOK PAGE

North Rocky now has a P & C Facebook page. Have a look and see what’s happening and keep up-to-date with the latest events.

http://www.facebook.com/NRHSPC

DATE CLAIMERS

These dates are subject to change and will be updated throughout 2016:

<table>
<thead>
<tr>
<th>Term 4</th>
<th>Date</th>
<th>Vaccine</th>
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<tbody>
<tr>
<td>Mon 17 Oct</td>
<td>Pupil Free Day</td>
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<tr>
<td>Mon 24 Oct</td>
<td>P&amp;C General Meeting 5:30pm Admin Building</td>
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<tr>
<td>Mon 24 Oct - Tues 25 Oct</td>
<td>Year 7 &amp; 8 Immunisations</td>
<td></td>
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<tr>
<td>Wed 26 Oct</td>
<td>2017 Bursaries Due</td>
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<tr>
<td>Fri 28 Oct</td>
<td>Free Dress Day – Wear red for Daniel Morcombe Day</td>
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<tr>
<td>Mon 7 Nov – Fri 11 Nov</td>
<td>Year 12 Exam Block</td>
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<tr>
<td>Tues 15 Nov</td>
<td>Year 12 Day</td>
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<tr>
<td>Wed 16 Nov – Tues 22 Nov</td>
<td>Year 11 Exam Block</td>
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IMMUNISATION SCHOOL CLINICS

<table>
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<tr>
<th>Date</th>
<th>Vaccine</th>
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<tbody>
<tr>
<td>Round 3</td>
<td>Year 7 – 24/10/16</td>
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<td>Year 8 – 25/10/16</td>
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<td>HPV (3rd dose)</td>
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<td>Plus any students requiring catch-up vaccinations</td>
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FOR FURTHER INFORMATION PLEASE CONTACT OZCARE ON 4937 4200.

COMMUNITY NOTICES

ART CLASSES

Art classes are currently being run at the Art house on East St for children aged 5 – 16.

When: Wednesday – Friday 4 – 5 pm.
    Saturday and Sundays 10 – 12pm and 2 – 4pm

All equipment is provided including paints, brushes, canvases as well as sketch pads and pencils.
All done in air conditioned comfort.

Prices are $15 for after school and $25 for weekend classes.

Please contact: Sandy – 0428 565 783 or Tau – 0403 983 623