Mathematical Moments

Year 8 Maths - Circles and Cylinders Treasure Hunt

Last week 8M3 were sent on a treasure hunt - not only to enjoy the wonderful spring weather, but also to take measurements of a variety of circular and cylindrical objects in order to calculate the radius, diameter or area. Students very much enjoyed getting outside the classroom to put the mathematical theory they had studied into practice.

Marina Cordeiro-Krahe and Ayisha Miller-Dinner measuring the circumference of the Totem Pole at the back of the PAC to calculate the radius to nearest centimeter.

Rhiannon Clarke and Caitlyn Esposito also measuring the circumference of the Totem Pole.

Byron Milne and Brad Kay measuring the diameter of the tree guard outside G Block in order to calculate the area to nearest square centimeter (cm²).

Cameron Powell and Aiden Lamb measuring the circumference of a cement pole outside the Library, so they can then calculate the diameter of the pole to the nearest centimeter.
Dear Parents and care givers,

It is with great sadness that we announce the death of Naomi Miller, daughter of our previous Principal, Barry Miller. Naomi passed away on Sunday 31st October. On behalf of the school and the community, I would like to express our condolences to Barry, Paula and their family.

The NSW Environmental Trust has approved a grant of $2,500 to Byron Bay High School. The submission was written by our Agriculture teacher, Mrs Jenny Woodward, and was entitled “Aquaponics – an ecologically sustainable food production system”. Out of nearly 200 submissions only 60 were chosen. Congratulations Jenny!

Aquaponics is the creation of a symbiotic relationship between plants and fish. The fish supply nutrients to the water which is pumped to a bed of plants (tomatoes, lettuce etc). After filtering through the grow beds it is returned to the fish tank perfectly clean creating a mutually beneficial environment. Aquaponics uses one tenth the water needed for field plant production and only a fraction of that used in Aquaculture. I am sure our students will enjoy this addition to our brilliant Agriculture curriculum.

This grant is the second we have received this year, with Mr Peter Gallaway writing a successful $50,000 submission to the Premiers Sporting Challenge. This money is being used to install a new watering system and new surface on the school oval.

World Teachers Day was on Friday 29th October. I want to acknowledge the teaching staff of Byron Bay High School for their expertise, commitment and care. I would also like to encourage our students to consider embarking upon a career as a teacher - it is a fantastic profession.

Finally I would like to wish all Year 10 students good luck for their School Certificate tests which commence on Monday 8th November and conclude on Thursday 11th November. This week I will provide all Year 10 students and parents with an important letter about the exams and the program of activities after the exams. Please read all the information carefully.

Peter King

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**Year 10 Leadership and Peer Support Training**

On Wednesday 24th, Thursday 25th and Friday 26th November, Year 10 students will be attending a three-day Leadership and Peer Support course. Students will be working in groups of 10 to 12 students with a facilitator. The areas to be covered include:

- Effective communication
- Relationships
- Group work
- Peer pressure - saying ‘no’
- Feelings
- Self-esteem
- Leadership practice

The students will be completing the training outside of school at the Pass Reserve and Broken Head.

In past years the students have enjoyed these three days and it provides a place for Year 10 to come together as a group near the end of the school year.

At the conclusion of the three days leaders will be selected for the Year 7 Camp to be held in Week 4 2011.

Information and permission notes have been handed to students and copies are available at the Front Office of the school.

Cameron Johnson, Relieving Deputy Principal
**FREE PRINTING FOR STUDENTS**

As part of our continuing response to the Federal Government’s Digital Education Revolution, Byron Bay High School has implemented a print management system. As well as enabling the DER laptops and students own wireless laptops to print, the system manages the amount that students can print to monochrome and colour printers in the school.

All students will be allocated a base quota for essential printing, which can be “topped up” by purchasing additional quotas from the school office. As well, all students who pay their General Fee will receive an additional quota. In recognition of the increased print needs of senior students, their quotas are larger.

The table below sets out the allocation for 2011:

<table>
<thead>
<tr>
<th></th>
<th>Base Quota</th>
<th>When fees paid</th>
<th>Additional quota price: $10 lots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Students</td>
<td>$4</td>
<td>+$6</td>
<td>$10 lots</td>
</tr>
<tr>
<td>Senior Students</td>
<td>$8</td>
<td>+$12</td>
<td>$10 lots</td>
</tr>
</tbody>
</table>

Printing costs have been set at cost recovery prices and as a guide, $4 will allow around 50 pages of monochrome printing.

Not only does this system provide equity of access, but it allows students to learn to manage their printing budget responsibly.

*Jim Richardson, Teacher-Librarian*

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**SCHOOL CALENDAR**

1st November: Year 11 Hospitality Work Placement  
Year 9 Exams week commences

8th November: School Certificate commences

10th & 11th November: School Certificate  
Computing Skills Test

15th - 19th November: “Project Inspire” - Year 10

17th November: North Coast Cricket - Grafton  
Year 12 Formal

18th November: Year 11 RISKK Day - Southern Cross Uni.

23rd November: ESSA - Year 8 (Periods 1 - 5)

24th - 26th November: Peer Support Training

28th Nov. - 4th Dec: Year 9 Lighthouse Excursion - Sydney

6th December: Year 7 2011 Orientation Day

9th December: Year 10 Presentation & Formal

10th December: Years 7, 8, 9 & 11 Presentation Day

15th December: Last day for all students

16th & 17th December: Pupil Free days

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**STUDENTS HAVING A BIRTHDAY NEXT WEEK**

Tessa Simpson  
Jake Sthapit  
Mika Steele  
Jesse Watts  
Alex Griffin  
Hamish Harding  
Mason Waterman  
Lealah Shostak-Berber  
Maxance Valade

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**HAPPY BIRTHDAY !!!**

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**Science Quiz Questions:**

1. What does a seismologist study?  
2. In radiophysics, what does UHF stand for?  
3. What is the concentrated ring of rocks between the orbits of Mars and Jupiter called?  
4. What is a saccharimeter used to measure?  
5. What type of vascular land plants reproduce using spores?
**CANTENE ROSTER**

We are always looking for more Canteen volunteers. If you can help out at all on any day please phone Margaret or Robyn on 6685 5381.

- **Wed. 3rd:** Sonya Wright
- **Thurs. 4th:** Jocelyn Pegoretti, Karen Hagley
- **Fri. 5th:** WE NEED HELP TODAY !!!
- **Mon. 8th:** Gail Christie, Liette Snow, Dianne Lamb
- **Tues. 9th:** Michelle Lamb, Catherine Kelly, Melissa Macdonald

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**NEW LIBRARY RESOURCES**

**Fiction**
- 6
- City of Ashes
- Factotum
- Organ Music
- Princess Mononoke
- Quillblade
- The Blue-Eyed Aborigine
- The Hunger Games
- The Lost Days

**Non-Fiction**
- Cambridge Studies of Religion - Stage 6
- How Many People Can Live on Planet Earth?
- The Gold Book for Men: Men’s Service Manual for Life
- The Gold Book for Women: Women’s Service Manual for Life
- Australia’s Surfing Life
- Literature for Senior Students
- WHAT is History?
- Ancient History
- The USA Between the Wars: 1919 - 1941: A Study in Depth

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**A giant Craft Expo** will be held in the auditorium of Byron Bay High School on Saturday 20th November 2010 from 9.00 am - 2.00 pm. Approximately 50 stalls will have a huge variety of gifts for sale including cushions, Christmas decorations, porcelain gifts, cards, Christmas cakes, puddings and toys - just to name a few.

This is a major fund-raiser for the Byron Hospitality Auxiliary and all proceeds are to help purchase equipment for the Byron Bay Hospital.

Cost: $4.00
Enquiries: Pam - Ph: 6685 3385

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**2010 ESSA**

On the 21st October all Year 8 students participated in the piloting of the 2010 Essential Secondary Science Assessment Online Practical Component (ESSA OPC) test. They are to be congratulated on their excellent co-operation as they completed this throughout the day in their Computer class groupings.

Thanks are also due to Mr G Booth, Mr D Christie and Mrs S Graham for their efforts throughout that day and in the pre-testing period leading up the ESSA OPC test. Without their help and the co-operation from the TAS Faculty in allowing the use of computer lessons to complete the test on the day, it could not have been managed so easily.

Results for the ESSA OPC test will be available in March 2011. The written ESSA Test for Year 8 will be held on Tuesday, 23rd November, 2010.

*Mrs V. Graham (Relieving Head Teacher Science)*

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**Science Quiz Answers:**

1. Earthquakes
2. Ultra High Frequency
3. Asteroid Belt
4. Sugar content
5. Ferns