

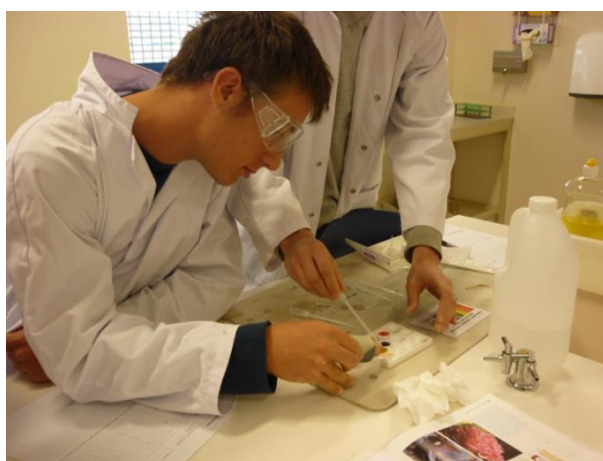
## 13th ANNUAL NATIONAL SCIENCE WEEK 2013 ELIZABETH COLLEGE

### “Science is Forever” & Mathematics is too!

#### ATTENTION: The Head of Science & Mathematics

We are trying a new initiative this year, in providing some activities for Grade 8 students during our examination period. Each activity is suitable for one class to attend. The exceptions are the symposium and the talk by Sheree Marris for which bookings will also need to be made. There is no cost for any of these activities/events. We have been able to obtain some funding to assist with transport costs if required.

We know that we have not given you a lot of notice, but would love you to visit us - all new things take a while to get organised!



Time	Activity
<b>Tuesday 30 July</b>	
9.00am – 10.30 am	<b>How Fast Are You? Testing your reaction time</b> We will play an online game measuring reaction time and see how it gets affected by external distractions (such as texting while driving a car). How can we use maths to compare our results with others? (HCoo & DSmy) T212
1.00pm – 2.00pm	<b>Pi in the Sky</b> What is the difference between Pi and Pie? A selection of mathematics related activities. (LBoy & RPay) D108

### Wednesday 31 July

9.00am - 10.30am	<b>Wine</b> For winemakers getting the amount of sulfur dioxide in wine correct is important as it controls the spoilage of wine during the vintage, wine making and storage processes. You will perform titrations and some calculations to find out how much sulfur dioxide is in some samples. (There will be no tasting). (DBes) B310
1.30pm – 3.00pm	<b>Heart and Lungs</b> How does the structure of the heart and lungs relate to their functions? Students will learn how to name and identify structure in the cardiovascular and respiratory systems. Includes a discussion about ethics, and students performing a dissection of a sheep pluck. (Dr Derek & MFen)B301
1.00pm – 2.00pm	<b>Probability, logic and truth tables</b> What do all these words mean? Can I tell who will win a cricket game? (MGra)

### Thursday 1 August

9.30am – 11.00am	<b>Wine</b> For winemakers getting the amount of sulfur dioxide in wine correct is important as it controls the spoilage of wine during the vintage, wine making and storage processes. You will perform titrations and some calculations to find out how much sulfur dioxide is in some samples. (There will be no tasting). (DBes) B310
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### Monday 5 August

9.30am – 11.00am	<b>Sparks and Quarks</b> Investigate electronic circuits and learn to solder as you build a small gadget with flashing lights that you can take home. (LYat)
10.00am – 11.30am	<b>pH of Household Substances</b> Lots of colour and fun learning about indicators, acids and bases. This is a practical “hands on” session. (SSau) B306
1.00pm – 2.30pm	<b>Strawberries, tomatoes and sugar</b> Observe, taste and test using a refractometer the amount of sugar in some foods. (DBes)B310

### Tuesday 6 August

9.30am – 11.00am	<b>Tower of Power</b> Students will design and construct a spaghetti tower capable of holding at least one kilogram. Prizes will be awarded to students who produce the strongest tower, tallest tower, neatest tower, most stable tower and most economical tower and best design. Students to work in pairs (DBes)
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9.00am – 10.30am	<b>Strawberries, tomatoes and sugar</b> Observe, taste and test using a refractometer the amount of sugar in some foods. (DBes)B310
<b>Wednesday 7 August</b>	
9.00am – 10.30 am	<b>Heart and Lungs</b> How does the structure of the heart and lungs relate to their functions? Students will learn how to name and identify structure in the cardiovascular and respiratory systems. Includes a discussion about ethics, and students performing a dissection of a sheep pluck. (Dr Derek & MFen)B301
9.30am – 11.00am	<b>Cars, Balloons and Motion</b> Construct, investigate, and study how motion can be varied or improved.(JShu & ARom)
<b>Wednesday 14 August</b>	
2.30pm – 4.00pm College Undercroft	<b>Science Symposium “Science through the eyes of our students”</b> A presentation of work/research by past and present students of Elizabeth College.
<b>Wednesday 21 August</b>	
10.00am – 11.00am College Undercroft	<b>Sheree Marris and the Sea</b> Sheree is one of Australia’s most experienced environmental communicators and ambassadors.  Sheree harnesses her expertise, bubbly personality and infectious enthusiasm to educate, empower and entertain her audiences.  Her innovative work and conservation efforts have been rewarded through numerous accolades including three Young Australian of the Year awards: the National Unilever Environment Award, Young Australian of the Year (Victoria) and Victorian Unilever Environment Award. She has also been the recipient of the Queens Trust for Young Australians and is an award winning author with four publications under her belt including the recently published KamaSEAttra - Secrets of Sex in the Sea, a humorous read about the unique reproductive methods of sea creatures and the parallels

To make a booking for one of the activities, or to RSVP to the symposium or Sheree Marris, please email [deborah.beswick@education.tas.gov.au](mailto:deborah.beswick@education.tas.gov.au).

Regards,

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