

Conferences and Events

Latest Events

For the latest events and Conference information go to SASTA's website:
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Madeleine Lilburn, Year 10 student from Loreto College, was this year's recipient of the Oliphant Trophy which was awarded for outstanding science content in her Scientific Inquiry: What Moisturiser will be most effective at improving my dry skin? Madeleine also won first prize (girl) in the DECD South Australian Young Scientist Awards 8-12 and **Jack Allison** from Pembroke School won first prize (boy).



This year's DSTO Secondary Schools prize winners were Glenunga International High School (First) and St John's Grammar School (Second) in years 8-10 and Pembroke School (Equal First) and The Heights School (Equal First) in years 11-12. Deputy Chief Defence Scientist, Dr Warren Harch, presented the prizes at the presentation ceremony held at the Adelaide Festival Centre on Friday 20 September.

South Australian Science Teachers Association Inc.

Patron: Dr Barbara Hardy AO ABN 22 938 317 192

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Member of Australian Science Teachers Association (ASTA)

Supporting teachers of science • Advancing science education



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Newsletter copy deadlines 2014

(Advertising deadlines one week earlier)

Edition	Deadline
February	20 January
May	22 April
August	21 July
November	20 October

Advertising

Advertising rates & booking form online at www.sasta.asn.au

Views expressed in this newsletter are not necessarily those of SASTA or the editors. Whilst every effort is made to be factual, no liability is accepted for the accuracy of information presented.

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Adhering to the following guidelines would be appreciated:

Save as a Microsoft Word document

Tables to be set up as text with one tab between columns and a return at the end of each row.

For spelling please use the Macquarie Dictionary and where several alternative spellings are listed, use the first. The exception to this is when you are citing, referencing or quoting directly from a source which uses alternative spelling. Photographs should be high quality untouched digital photographs.

From the President



We had a very successful Early Careers Teachers conference at Immanuel College during the recent term break. Thanks to Kate Dilger, our project officer, who coordinated the fully subscribed event.

Our next major activity is the Maths and Science Middle school conference on 29th November that SASTA co-convenes with MASA (Maths Association of SA). This has been fully

subscribed for the last two years and I would suggest registering online now if you are interested to avoid being disappointed like some were last year.

There has been considerable talk this year about the introduction of a Science NAPLAN in addition to the current Literacy and Numeracy tests.

However, with the new government saying that it is reviewing the publishing of NAPLAN results, it may not get off the ground. The current standardized tests are controversial especially the publication of the results and the temptation for schools/teachers to distort the existing curriculum and teach to the test. Yet I can see a number of advantages for a Science NAPLAN, not the least being a greater focus on science in schools.

Despite DECD introducing minimum teaching times for mathematics and science from the start of 2011, parents have complained this year that their children in non-DECD primary schools are still not learning science. In many primary schools, whether or not you learn any science continues to depend on which teacher you happen to get.

Yet, all schools now have a clear focus on literacy and numeracy and NAPLAN has certainly sharpened that focus, if not been clearly responsible for it. There are many disadvantages and possible dangers with a Science NAPLAN but there could also be huge pluses in raising the current profile of science in schools for both learners and teachers of science. I am following the debate with interest.

Mark Divito
President



Abstract Submissions now open

CONASTA is the annual conference of the Australian Science Teachers Association. It brings together 300+ educators from all sectors, including schools, universities and scientific organisations, and provides high-quality professional development opportunities in the field of science teaching and learning. There is no other national event which brings together the depth and richness of science teaching expertise in such a spirit of learning, discovery and camaraderie.

Submissions are now being called for presentations at CONASTA 63, ADELAIDE 6-9 July 2014, Adelaide University, SA.

Presenters are invited to submit abstracts for:

- Practical sessions where participants interact with teaching and learning ideas for the classroom
- Seminar presentations to inform participants about a particular science or science education topic, program or initiative
- Laboratory workshops conducted in a wet laboratory setting
- Computer workshops conducted in a computer suite, with a 1:1 ratio of computers to participants
- Commercial workshops or presentations involving equipment and/or science resources with expert guidance from the distributor or commercial exhibitor

**For more details visit <http://asta.edu.au/conasta>
Applications close 18 November.**

SASTA Awards

Start thinking now for 2014

There are many great teachers out there that SASTA would like to acknowledge, but often they don't get nominated for awards because teaching is a very busy job and people don't get the time to fill in the nomination forms. Start thinking now. Alert your principal.

There are many awards for SASTA members

- SASTA Medal – for significant contribution to SASTA;
- Credit Union SA/SASTA Outstanding Teacher Award – for junior primary, primary, middle years and senior years teachers;
- Helen Castle Memorial Scholarship – worth \$500 for country teachers to attend the the CONASTA 63 national conference.

Nomination forms are available at

http://www.sasta.asn.au/about_us/sasta_awards

Nominations close Friday 14 March 2014.

MASA – SASTA Conference



Friday 29 November 2013

A Science and Mathematics Conference for Upper Primary and Lower Secondary (6-10) Maths & Science Teachers

Venue: Norwood Morialta High School, Magill

The South Australian Science Teachers Association and the Mathematical Association of South Australia encourage Upper Primary and Junior Secondary educators across the State to attend this conference, which will provide 7 hours of high quality professional development.

Participants will be able to choose from up to seven electives in each of four workshop sessions. Nick Jackson Online Educational Designer at the University of South Australia will present the keynote presentation titled 'Inspiration for the digital age – Learning to teach is a lifelong process'.

The conference will also provide an opportunity to view the latest products & services available from suppliers and network at the morning tea, lunch and happy hour, which are included.

For full workshop details and to REGISTER visit the SASTA website at www.sasta.asn.au

Program

8:30am	Registration and Coffee
8:45am	Welcome and Housekeeping
9:00am – 10:00am	Keynote Nick Jackson
10:10am – 10:40am	Morning Tea and Trade Displays
10:40am – 11:40am	Workshop 1
11:45am – 12:45am	Workshop 2
12:45pm – 1:30pm	Lunch and Trade Displays
1:35pm – 2:35pm	Workshop 3
2:40pm – 3:40pm	Workshop 4
3:45pm – 4:45pm	Happy Hour

Keynote: Nick Jackson



Nick Jackson is currently working as an Online Educational Designer at University of South Australia where he is working on online and blended learning projects involving the University and OUA. He is deploying his extensive skills and expertise in multimedia, flipped and elearning to impact on the practices of academics. He is also spending time consulting with schools on Digital Leader

programmes and building a network of schools through www.ozdis.com. This has involved working with schools across Australia and across education sectors.

Nick has been employed in leadership positions in education with specialist roles involving ICT, Computing and whole school deployment of technology for over 12 years. He has worked in a wide variety of environments from secondary schools to special education, high performing to challenging schools, small primaries to colleges for 16 to 18 year olds and now in university.

He has an unstoppable desire to improve education. He sees the development of communities, communication and most importantly student-centred approaches to learning through empowering young people, at the heart of those improvements. Nick holds an MA in Education and an MSc in Multimedia & eLearning. He is currently studying for a PhD carrying out research on the empowerment of students.

Abstract: Inspiration for the digital age – Learning to teach is a lifelong process

It is time for everyone in education to really do something to address the well-known and much used comments around "kids have changed". Because they have changed, or should I say, some of the way they live their lives have changed. We are living in a connected age and access to information; to views on any given topic, are only a click away. In the digital age, more than ever before, we need to inspire young people, fire their imaginations, immerse, excite, challenge and motivate them. The technology at the teacher's disposal in the digital age, when mixed with the analogue, holds such potential for inspiration. Learning to teach in this age is a journey all educators must embark on regardless of the stage they think they are currently at.

This keynote will provide an in-depth overview of techniques and tools, practices and environments that will inspire educators to make changes to the way they view teaching with technology and their classroom practice.

Stage 2 Biology Practical Manual

The Stage 2 Biology Practical Manual has been thoroughly revised to meet the needs of teachers and students as they prepare for the SACE Stage 2 requirements and moderation procedures.

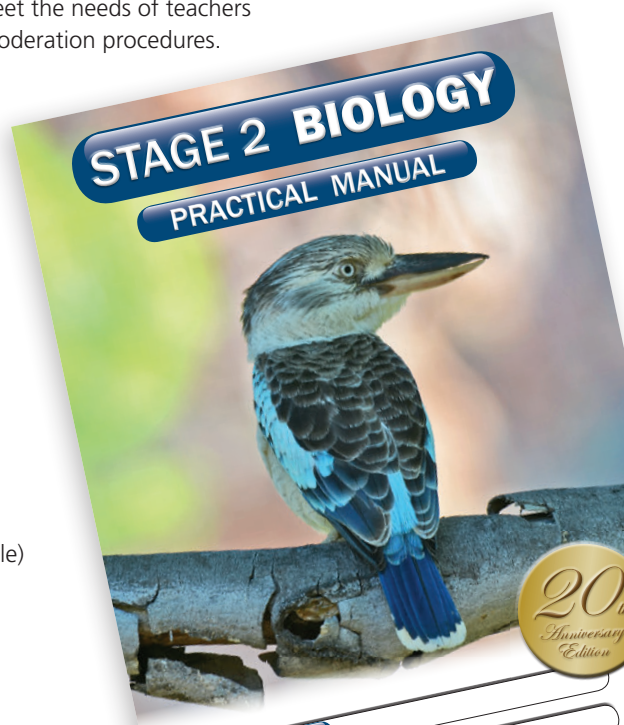
SASTA and S.T.A.R. have collaborated once again to produce this special 20th anniversary edition

- Consists of 12 familiar 'tried and true' practical activities, written specifically for the SACE Stage 2 Biology Course
- All **Assessment Design Criteria** are addressed
- **Intended Student Learnings** are identified for each activity
- A comprehensive **Assessment Table** for each activity
- An Assessment Record Table will allow for a collation of marks to make reliable judgment against the **Performance Standards**
- As usual, a free set of **Teaching Notes** are provided to assist staff
- Preview sample pages now on the SASTA website

The 2014 edition will be on sale as usual in November.

(Limited copies of the 2013 edition of the workbook will also be available)

It is a student workbook rather than a photocopiable teacher resource therefore there is a **minimum order of 5 copies. Order now from SASTA for the price of \$18 incl. GST**



Chemistry Investigations Manual

Assessment Of Stage 2 Chemistry Using Sace Performance Standards

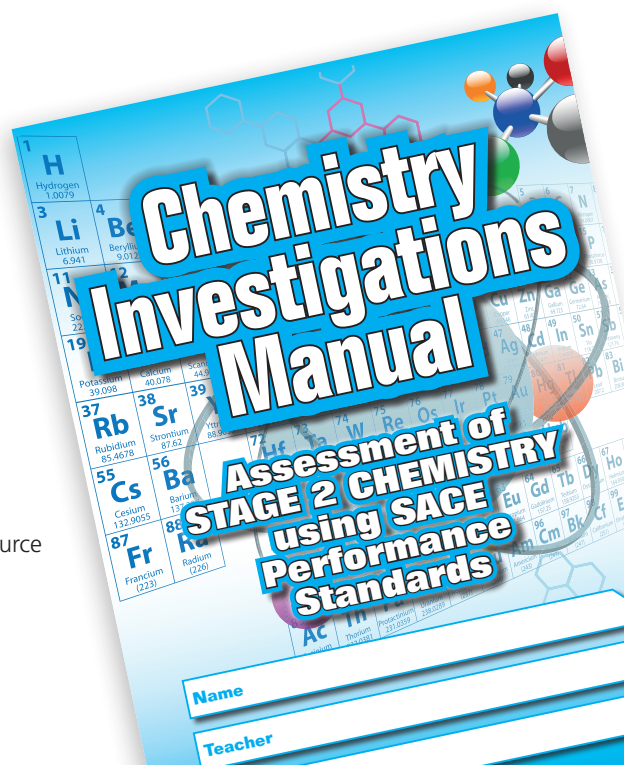
A new book for SA Chemistry Teachers.

The Chemistry Investigations Manual has been prepared to meet the needs of teachers and students in line with the new SACE requirements and moderation procedures. The manual contains

- 10 familiar practical activities covering analysis, organic preparation, reaction chemistry and experimental design
- 2 issues investigation activities
- All **Assessment Design Criteria** are addressed
- A comprehensive **Assessment Table** for each activity
- A **Performance Standards Table** matched to each activity
- Intended Student Learnings are identifiable within each activity
- A free set of Teaching Notes provided to assist staff
- Prepared by experienced chemistry teachers and moderators Lynton Hall, Ian McMahon and Clive Nikkerud
- It is a **student workbook** rather than a photocopiable teacher resource
- Preview sample pages on the SASTA website

Order now from SASTA at the price of \$18 incl.GST.

N.B. Minimum order of 5 copies. On Sale Now for \$18.00 incl.GST
Purchase online at www.sasta.asn.au or fax a school purchase order to 8354 0008.



SASTA Psychology Summer Conference

Theory into Practice in Psychology



Friday 17th January 2014

Education Development Centre, Milner Street, Hindmarsh SA

Program

For full workshop details and to REGISTER visit the SASTA website at www.sasta.asn.au

9.00am	Conference Opening Housekeeping and welcome to EDC	
9.15am	Keynote Speaker 1: Subjective Wellbeing in Children and Adolescents with Refugee Backgrounds: Theory, Research and Practice Dr Clemence Due Associate Lecturer and Research Associate in the School of Psychology University of Adelaide	
10.30am	Morning tea	A word from our sponsors
11.00am	SACE Examination and Moderation Review (Please bring a copy of the Stage 2 Psychology 2013 examination paper with you to the conference)	Paul Hudson Penny Spencer Sam Savage
12.00	Concurrent Workshops 1 1.1 Teachers New to Psychology 1.2 Persuasion RP in the Social Cognition Topic 1.3 Sleep RP in the Altered States of Awareness Topic	Jenny Hunter Kerry Alves Jane Wright
12.45	Lunch	
1.30pm	Keynote Speaker 2: New Developments in Applied Sleep Research Associate Professor Jill Dorrian Senior Lecturer in the School of Psychology, Social Work and Social Policy University of South Australia	
2.30pm	Concurrent Workshops 2 2.1 Getting started: Introduction to Psychology and Investigations 2.2 Persuasion RP in the Social Cognition Topic 2.3 Healthy Minds topic using the movie Silver Linings Playbook and comic strips	Irena Atherton Kerry Alves Brad Sawyer
3.15pm	Concurrent Workshops 3 3.1 Healthy Minds topic using the movie Silver Linings Playbook and comic strips 3.2 Sleep RP in the Altered States of Awareness Topic 3.3 Getting started: Introduction to Psychology and Investigations	Brad Sawyer Jane Wright Irena Atherton
4.00pm	Conference Plenary and Happy Hour	



Keynote 1: Subjective Wellbeing in Children and Adolescents with Refugee Backgrounds: Theory, Research and Practice

It is estimated that approximately 46% of the world's 15.2 million refugee population are under the age of 18, or a total of nearly 7 million young people. The majority of these young people have experienced multiple, diverse, and on-going exposure to traumatic events, however there is little comprehensive research indicating how psychological trauma manifests in younger children, or what constitutes subjective wellbeing or 'doing well' for refugee children. In addition, a growing body of research indicates that current criteria related to trauma (such as Post-traumatic Stress Disorder, PTSD) are insufficient to adequately capture the experiences of younger children with refugee backgrounds, particularly those aged under 8 years old, and there is also a growing body of research concerning the manifestation of resilience. This presentation will examine the current state of play in relation to trauma and wellbeing theories, and research concerning the subjective wellbeing of refugee children. In addition, it will consider the applications of current research in terms of best-practice when working with this vulnerable group of young people.

Presenter: Dr Clemence Due

Dr Clemence Due is a Lecturer in the School of Psychology at the University of Adelaide. Her main research interests lie in the area of child mental health and refugee studies, and she is currently working on an ARC-funded project in conjunction with DECD concerning the wellbeing and transition experience of primary-schooled aged migrants and refugees in South Australia.

Keynote 2: New Developments in Applied Sleep Research

Our increasingly busy round-the-clock lifestyle with long and irregular work hours, constant communication and increasing screen time can have a negative impact on our performance, safety and health. Sleep is central to our ability to function and as a society we are becoming more and more sleep deprived. Research psychologists who study sleep are asking some big questions about our current lifestyle. How does sleep loss impact on workplace safety and productivity? Is sleep deprivation contributing to the obesity epidemic? What is the relationship between long and irregular hours and diabetes, heart disease, gastrointestinal illness and cancer? What is screen time doing to our sleep? What is it doing to children and adolescents? Are you feeling sleepy?

Presenter: Dr Jill Dorrian

Jill is a Senior Lecturer in the School of Psychology, Social Work and Social Policy at UniSA. She has a PhD in Psychology and a Masters in Biostatistics. Her primary research experience is in human sleep, biological rhythms and performance. She also studies alcohol consumption, dependence and abuse. As a member of the Centre for Sleep Research, she works with the Australian Rail and Healthcare Industries investigating fatigue, workload, operational performance, safety and health.

2013 SASTA Oliphant Science Award

presented by SA Water



Congratulations to all students who completed entries and to the major prize winners.



Oliphant Trophy

Ms Madeleine Lilburn from Loreto College for her Scientific Inquiry entry 'What Moisturiser will be most effective at improving dry skin?'

Ms Monica Oliphant presented the prestigious Oliphant Trophy to Ms Madeleine Lilburn at the presentation ceremony held on Friday 20 September at the Adelaide Festival Centre. Mr Bruno Vieceli, Assistant Director Catholic Education SA, congratulated Madeleine for her achievement.

DECS Young Scientist

Primary

- 1st Kee-An Seet and Charlene Lee
- 2nd James Beaumont and Amber Washington
- 3rd Isaac Au and Wei-En Seet

Secondary

- 1st Jack Allison and Madeleine Lilburn
- 2nd James Swift and Kimberley Raoux
- 3rd Greg Howlett and Ashleigh Chin

SASTA Best Country School Award

- R-7 Encounter Lutheran College

DSTO Secondary School

- 8-10 1st Glenunga International High School
2nd St John's Grammar School
- 11-12 Equal 1st Pembroke School and The Heights School

SA Water Award R-7

Tayla Wood, Abby White & Charlotte Weeks for their Multimedia entry 'Desalination – At What Environmental Cost'

SA Water Award 8-12

Rachael Greenwell, Elizabeth Hayes & Zoe Jeffries for their Games entry 'River Rampage'

Catholic Education SA

- 1st St Andrew's School
- 2nd Walford Anglican School For Girls

Australian Institute of Energy

- R-2 Alex Lothian for his Models & Inventions entry 'The Solar Oven'
- 3-5 Joel Ransom for his Game 'The Force of Nature'
- 6-7 Amber Washington for her Game 'Earthwise'
- 8 William Pincombe for his Science Writing entry 'Solar Cells – are they worth the cost?'
- 9-10 Mehar Singh, Ahmed Sanjid & Kurt Benton for their Models & Inventions entry 'Wind Turbine'
- 11-12 Jason Dodd for his Science Writing entry 'Should our family have solar panels fitted to save money?'

Nature Foundation SA

- R-2 George Austin for his Posters entry 'Conserving Natural Ecosystems'
- 3-5 Wei-En Seet for her Posters entry 'Conserving Mangroves and Matthew Swain for his Models & Inventions entry 'Why Seal Bay?'
- 6-7 Charlene Lee for her Posters entry 'The future of our ecosystem is in our hands'.
- 8 Rachael Greenwell, Elizabeth Hayes & Zoe Jeffries for their Games entry 'River Rampage'
- 9-10 Jessica Evans for her Photography entry 'Levels of the Rainforest'

Beach Energy

Bellarose Watts for her Models & Inventions entry 'Gondwanaland'

CSIRO Education

CREST Schools:

St Andrews School and Glenunga International High School

Non-CREST Schools:

Magill School and St John's Grammar School

Flinders University School of the Environment

William Pincombe for his Science Writing entry 'Solar Cells – are they worth the cost?'

Flinders University Science Prize

James Swift for his Computer Programming & Robotics entry 'W.E.M.S'

University of South Australia

Tobias Duchon, Zachari Thompson & James Rowland for their Models & Inventions entry 'Carrot Chopper'.

Australian Institute of Physics

Imogen Whettters her Models & Inventions entry 'Robo Fish – Retracted Light

Australian Radiation Protection Society

Ashleigh Chin for the Scientific Inquiry entry 'How Safe is your Microwave Oven?'

Australian Society of Biochemistry & Molecular Biology

Joshua Fedede for his Science Writing entry 'Cycles of Life'

Skeptics SA

Olivia Habel for her Science Writing entry 'Does the Science Add up?'

Tall Poppies

Madeleine Lilburn for her Scientific Inquiry entry 'What Moisturiser will be most effective at improving my dry skin?'

The University of Adelaide: Faculty of Engineering, Computer & Mathematical Sciences

Idris Kellerman-Williams for the Models & Inventions entry 'Model of Clock Escapement'

The University of Adelaide: Faculty of Sciences

Anna Cross for her Posters entry 'Australian Scientists in History'

Topics for 2014

Have you any good ideas? We need topics for the Scientific Writing, Poster and Photography categories. Contact Rebecca officemanager@sasta.asn.au or phone 8354 0006.

SASTA Early Career Teachers Conference 2013

65 teachers from as far away as Pt. Augusta, Jamestown and Naracoorte spent the first day of their school holidays at the SASTA Early Career Teachers Conference hosted by Immanuel College in Novar Gardens. The conference was designed to offer best practice and strategies that would meet the needs of NEW teachers. Teachers of both Primary and Secondary science were able to choose from a comprehensive range of workshops that aimed to enrich and support their science teaching. In addition, workshop presenters shared innovative and relevant resources that could have immediate practical applications in their classrooms.

The conference program was run by qualified presenters with a breadth of experience in their teaching fields. All sessions were interactive and saw delegates involved in such things as launching 'stomp' rockets, making silly putty, learning magic tricks or dissecting eyeballs!!

"Each presenter had a personal style which they brought to their presentation. I appreciate the variety and their willingness to encourage and support early career teachers." Olivia Pawson, Yankalilla Area School.

Although the conference allowed teachers to deepen their pedagogical skills and curriculum knowledge, more importantly there were substantial opportunities for networking and collaboration with new and experienced teachers of science.

Thanks go to all of the presenters that gave so generously of their time and expertise and to the very supportive team at Immanuel College; Simon, Kaye, Rhianne and Hayley.



Teachers New to SACE Stage 2 Biology

Monday 24 February 2014

Room G.43 Education Development Centre

Program

- 9:00 am **Registration**
- 9:15 am **Introduction**
- Stage 2 curriculum development
 - The current SACE course
 - SACE Board documents
 - Designing a Teaching Program
 - Alternative Programs
- 10:00 am **Morning Tea**
- 10:20 am **Theory Lessons**
- Teaching biology
 - Analysing worksheets, class assignments, homework assignments using assessment design criteria and performance standards
 - AV and multimedia materials in Senior Biology
- Practical Lessons**
- Types of Practical
 - Assessing practical work
 - Test questions relating to practicals
- 11:45 am **Assessment Plans**
- Designing an assessment plan
 - Sample assessment plans
- 12:15 pm **Lunch**
- 1:00 pm **Moderation**
- SACE moderation
- 1:30 pm **Preparing tests and issues investigations**
- Analysing test questions
 - Preparing answers
- 2:00 pm **Afternoon Tea**
- 2:15 pm **Marking**
- Marking tests and issues investigations
 - Marking extended response questions
- 3:15 pm **Questions & Resources**
- Where do you get help?
 - SACE Board and SASTA – how can they help science teachers?
- 3:30 pm **Close**

Teachers New to Year 12 Chemistry

Monday 24 February 2014

Room G.45 Education Development Centre

Program

- 9:00 am **Registration – G.11A**
- 9:15 am **General Introduction**
- Subject outline walk through**
- Investigation skills
 - Content
 - Assessment
 - Performance Standards
- 9:30 am **Assessment Operations**
- Quality assurance cycle
 - Key dates
 - Assessment Groups
- 9:45 am **Assessment and SACE Board Policies**
- Moderation and external assessment
 - Supervision and verification of students' work
 - Assessment deadlines and submission dates
 - Special provisions
- 10:45 am **Morning Tea**
- 11:00 am **Learning and Assessment Program (LAP)**
- Structural elements
 - Exemplars
 - Addendum
 - Variations
- 11:30 am **Teaching Programs**
- Organization
 - Connections
- 12:15 pm **Lunch**
- 12:45 pm **Group Work**
- Practical program Formative/Summative
 - Example of a Skills & Applications Task (i.e. Test)
 - Example of an Investigation (i.e. Summative Prac.)
- 2.00pm **Afternoon Tea**
- 2.15 pm **The Moderation Process**
- 3.00 pm **Resources available to support you (i.e. Texts, Study Guide)**
- Further Questions and Discussion
- 3:30 pm **Close**

Teachers New to SACE Stage 2 Physics

Friday 28 February 2014

Room G1617 Education Development Centre

Program

- 9:00 am **Registration and Welcome**
- 9:15 am **General Introduction to SACE Physics requirements – Lois Ey**
- Subject outline walk through**
- Investigation skills
 - Content
 - Assessment
 - Performance Standards
- Assessment Operations**
- Quality assurance cycle
 - Key dates
 - Assessment Groups
- Assessment and SACE Board Policies**
- Supervision and verification of students' work
 - Assessment deadlines and submission dates
 - Special Provisions
- Getting help**
- 10:45 am **Morning Tea**
- 11:00 am **Approaches to Learning – Class Activities – "Here's How I Do It" – Brian and Peter.**
- 11:45 am **Assessment task design – Mostly Brian (current work) with a few thoughts from Peter and attendees.**
- 12:15 pm **Lunch**
- 1:00 pm **Use of ICT Resources** (in class, practical sessions and for private study) – Brian and Peter:
- Software, video, simulations, PD materials
 - Texts with ICT support
 - Tablet opportunities
 - Data loggers
- 2:00 pm **Administration** at the school level – grading, reporting, watching for plagiarism – Brian and Peter + ideas from attendees
- 2:15 pm **Afternoon Tea**
- 2:30 pm *Here's How I Do it (attendees – come prepared), Q & A (please send us some) – joint approach
- External exam and Chief Assessor's report – Brian and Peter
- Physics in Years 7/8 to 11 – Peter and Brian
- Final discussion generated by attendees (plus feedback sheet)
- 3:30 pm **Close**

Teachers New to SACE Stage 1 & 2 Psychology

Friday 28 February 2014

Room G.45 Education Development Centre

Program

- 9:00 am **Registration**
- 9:15 am **Subject Outline – the big picture**
- 9:30 am **Assessment Type 2: Skills & Applications Tasks – relevant to Stage 1 & 2**
- Task design, examples and performance standards**
- 10:45 am **Morning Tea**
- 11:00 am **Central Moderation of School – based assessment at Stage 2, which includes**
- Assessment Type 1: Investigations Folio (30%)
 - Assessment Type 2: Skills & Applications Tasks (40%)
- Stage 2 SACE Board Exam**
- How the exam is constructed
 - Marks scheme for the exam
- 12:00 noon **Lunch**
- 12:45 pm **Group Investigations – relevant to both Stage 1 & 2**
- How to conduct a research program
 - Guiding students in writing research proposals, drafts & final reports
- Stage 1 Issues Investigation**
- 2:00 pm **Afternoon Tea**
- 2:15 pm **Mock moderation – recognizing grade brands in sample investigations**
- 3:00 pm **Question time**
- 3:30 pm **Close**

Please:

1. Come prepared to share at least one good idea – "Here's how I do it!". You get a two minute window after lunch to share with colleagues. Please email us with requirements beforehand.
2. Also, email us with any extra specific questions, requests or suggestions for the day so that we can try to deal with them. If you want to send us student work (no identifying features) for discussion, please do so.

Our intention is to make the workshop as interactive as possible. Your input will help. Please contact Brian at bparsons@scotch.sa.edu.au or Peter at peterzwaag@gmail.com. All attendees will receive e-copies of useful (we trust) curriculum materials for use in their teaching program.

SASTA 2014 Study Guides

**ORDER
NOW
\$25**
EACH INC. GST

Biology

Chemistry

Geology

Nutrition

Physics

Psychology

Copies of some past editions of the SASTA Study Guides, including exam answers, are available for \$15.00

SASTA study guides (approx. 200 pages) are the complete resource for students preparing for Year 12 SACE Board of SA exams.

These guides include questions with worked solutions covering each topic in the Subject Outline and address all sections of the exam.

Please fax school purchase order to 8354 0008 or order online at www.sasta.asn.au

Inquiries concerning resources can be answered by the SASTA office by telephoning 8354 0006 or email office@sasta.asn.au



Supporting Teachers of Science
Advancing Science Education

www.sasta.asn.au