

SASTA

August 2021

Newsletter

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Upcoming Events

Using Powerful Questioning to Guide Investigation

Monday 16 August 2021, Education Development Centre
See page 4 for details.

Focus on Aboriginal Science Elaborations

Friday 20 August 2021, Education Development Centre
See page 4 for details.

Stage 2 Marking & Moderation Workshops

Education Development Centre

Chemistry - Friday 20 August

Psychology - Monday 23 August

Biology & Physics - Monday 30 August

Nutrition - Friday 3 September

See page 4 for details.

Early Career Teachers Conference

Monday 27 September 2021, Nazareth Catholic College

Program and registration available. See page 5 for details.

Planning for Stage 2 Psychology 2022

Saturday 30 October 2021. See page 4 for details.

Oliphant Science Awards Open Day

Sunday 22 August 2021, Festival Functions

See page 11 for details.

South Australian Science Teachers Association Inc.

Association member of the Australian Science Teachers Association (ASTA)

249 Henley Beach Road, Torrensville SA 5031

P 08 8354 0006 | E office@sasta.asn.au | W www.sasta.asn.au

Supporting Teachers of Science | Advancing Science Education

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249 Henley Beach Road, Torrensville SA 5031
ABN: 22 938 317 192
P: 08 8354 0006 F: 08 8354 0008
E: office@sasta.asn.au W: www.sasta.asn.au

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Newsletter copy deadlines 2021

(Advertising deadlines one week earlier)

Edition	Deadline
November	15 October

Advertising

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

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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 alternatives 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



Welcome everyone to this edition of the SASTA Newsletter.

Firstly, I would like to take this opportunity to introduce myself. My name is Pete Beveridge and I have been an active member of SASTA

since 2017, including my current role on the SASTA Board since 2019. I am a Specialist Science and Technology (STEM) Teacher at Pennington School R-7 in the Inner West region of Adelaide and enjoy introducing students to the world of science and the potential fields of work they might like to pursue as they move through their education.

As the newly elected SASTA President, I would firstly like to recognise the hard work and dedication of all SASTA members and staff over what has been a testing and difficult period in history. The past year has shown just how quickly the world can change and I have noticed just how well educators have adapted to these changes; whether it be through planning for remote learning at a moment's notice or simply supporting each other to continue to provide the highest possible quality of education despite the circumstances.

The SASTA Annual Conference in 2021 was a welcome return to face-to-face events for all involved, and it was especially exciting to reconnect with familiar faces to share successes and plan for future challenges. Of note were the excellent keynote sessions from Professor Chris Daniels and Dr Hannah Brown which covered the topics of reconnecting people with nature for the mutual benefit of humans and the environment, and the importance of trust in the communication of science. I recommend keeping an eye out for any opportunities to hear from these two wonderful speakers in the future.

Upcoming events include the Early Career Teachers Conference, STEM Day Out as part of Science Alive, and the STEM Conference. Please check the SASTA website for details on how to register for these conferences. A reminder as well that the SASTA website contains a Members Area teeming with resources, links and electronic versions of previous Journals.

I also want to highlight the upcoming Oliphant Science Awards and commend all of the entries; I am sure the judging team will have a difficult task ahead of them. Thank you to all supporters of the OSA at all levels, it is fantastic to see the growth in submissions despite the global pandemic.

In closing, I want to thank all SASTA Members for the opportunity to represent you as science teachers and fellow educators. I look forward to meeting many of you at various events and functions, or perhaps online via SASTA social media on Facebook and Twitter.

I wish you all success for the remainder of the year ahead.

Peter Beveridge

Professional Learning for Term 3 2021

Stage 2 Marking & Moderation Workshops

These workshops will provide an opportunity for teachers to discuss assessment and the application of the performance standards to samples of work, as well as to have invaluable professional input with their own student samples. As well as an opportunity to readjust marking standards prior to final moderation.

Tasks that will be discussed include the deconstruct and design task, science as a human endeavour investigation and marking of SATs, in particular short answer and extended response questions, including SHE responses.

Chemistry

Friday 20 August 2021, 9.00 am – 3.00 pm

Psychology

Monday 23 August 2021, 9.00 am – 3.00 pm

Biology

Monday 30 August 2021, 9.00 am – 3.00 pm

Physics

Monday 30 August 2021, 9.00 am – 3.00 pm

Nutrition

Friday 3 September 2021, 9.00 am – 3.00 pm

Planning for Stage 2 Psychology 2022

Saturday 30 October 2021

9.00 am – 3.00 pm

Presented by Kirsty Gebert & Deb Green

Keynote Speaker: Neil Kirby, Organisational Psychology

This session will provide an introduction to the new subject outline for Stage 2 Psychology covering content, resources, assessment and SACE requirements.

- Overview of content – SU, SIS, SHE
- Planning for learning and assessment
- Task designs for D&D and SHE
- Rethinking the Stage 2 exam – what might this look like?
- Conversation groups – brainstorming ideas for learning activities
- Networking to the finish day

Using Powerful Questioning to Guide Investigation

Monday 16 August 2021

Education Development Centre

9.00 am – 3.00 pm

Presented by Kate Dilger

This workshop emphasises three components: **Questioning, investigations and assessment**

Questioning is a vital part of science. Questions challenge student thinking at key points within a lesson or unit of study to connect concepts and drive investigations. Student thinking deepens as the teacher integrates the skill of questioning into each lesson. As students interact with the world through questioning and collaboration with others, they build understanding.

This workshop will guide teachers through an instructional model with questions at its core. Teachers will be engaged in a number of different types of investigations that explore a concept or phenomena. Through this hands-on learning teachers will develop questioning techniques and look at ways to assess student understanding.

Focus on Aboriginal Science Elaborations

Friday 20 August 2021

Education Development Centre

9.00 am – 3.00 pm

Presented by Katrina Elliott & Caroline Dean

This workshop has a particular focus on how the Science units embed Aboriginal knowledge and ways of knowing connected to scientific concepts in the Australian Curriculum: Science.

Teachers will also be introduced to the many resources and culturally responsive practical ideas available to support understanding and implementation of First Nations cross curriculum priorities science elaborations with a focus on South Australian Aboriginal knowledges.

For more detailed information on these workshops and to register, go to sasta.asn.au/professional_learning



**Setting up
for Success**

27 September 2021
Nazareth Catholic College

Early Career Teachers Conference

Program Available

The Early Career Teachers Conference is aimed at teachers in their first five years of teaching science/STEM or those who are new to a specialist science or STEM role.

This is an opportunity for early career and pre-service teachers to engage in interactive learning activities that will deepen your understanding of the science content and will give you the skills and resources to engage your students in learning.

Find out more and register online
www.sasta.asn.au/professional_learning

The Conference includes specialised workshops for Primary, Middle & Secondary Teachers focussing on the theme 'Setting up for Success'.

“The new teacher assumes full pedagogical and legal responsibility as soon as they enter the school. No other profession has such high expectations of its newest members.” (Tynjala & Heikkinen, 2014).

Teachers will walk away from this conference equipped with the resources and best practice strategies for building their confidence and capabilities.



CONASTA 69: SCIENCE REVEALED

26 - 29 Sep 2021 | St Edmund's College
Canberra/St. Clare's College, ACT, Australia

The CONASTA 69 theme of 'Science Revealed' has been chosen to inspire all educators to focus on the less obvious and most intriguing aspects of science and how this contributes to the broader body of scientific knowledge that supports breakthrough technologies.

CONASTA 69 is an in-person conference being held and co-delivered in two spacious and grand side-by-side colleges. The conference venue is located within walking distance to the highly acclaimed Kingston precinct, known for its vibrant nightlife, prestigious hotels, and lakefront views.

All workshops and seminars will be delivered on-site, with over 100 course options to choose from over the 3-days. All sessions will be recorded and made available for 90 days following the conference for all participants to view the courses you might have missed!

Registrations close 19 September 2021

The full program and registration can be found at: <https://seaact.act.edu.au/conasta69/>



How does STEM help us battle threats to our world? Many of the problems we face in our world today will not be solved by today's adults, but by the students in our classrooms. Whether it is inventing a better way to distribute clean water, repopulate endangered species, or travelling and colonising Mars; our students will be the ones leading the way.

The 2021 STEM Conference will bring together classroom teachers, leaders in education and businesses who are interested in sharing and exploring teaching methods, tools, resources and related activities for implementing STEM education into our schools and communities.

The workshop presentations aim to cover a range of content and pedagogies of the Australian Curriculum: Mathematics, Science, Design & Technology, and ICT.

Looking for ideas or topics that link directly to the theme of the conference? Or a focus for your presentation? See the website for some suggestions.

Workshop proposals must be submitted by Friday 24 September.

For more information go to www.sasta.asn.au/professional_learning



At Credit Union SA we know how hard YOU work in the education community, which is why we created our **exclusive education banking benefits**. But we want to do more...so guess what? We are! We're offering all the same amazing benefits to your family as well! Find out more at creditunionsa.com.au/ecbb [Join us!](#)



**South
Australia
Teachers
only!**



Bush Blitz

TEACHLIVE PROGRAM

Fowlers Bay SA – 2 expeditions

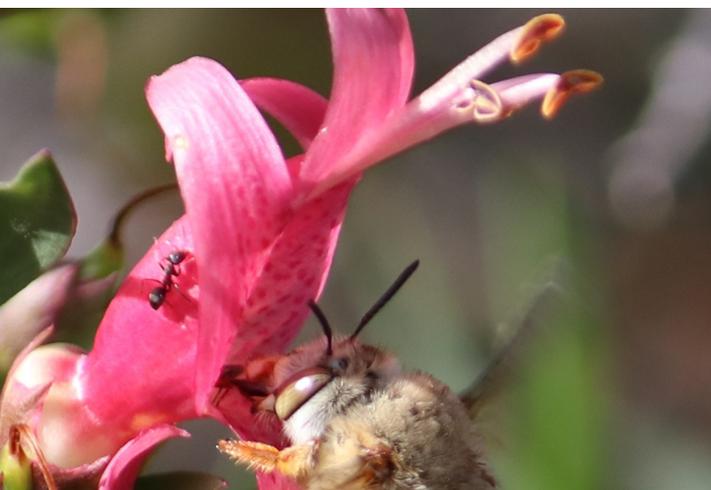
**21 – 28 Nov &
28 Nov – 3 Dec**

Bush Blitz TeachLive is an unique, fully funded professional development program open to all SA primary and secondary teachers.

Teachers participate as research assistants with leading scientists on Bush Blitz expeditions learning scientific research skills while helping to document plants and animals and potentially discover new species.

**Applications now open, close
Mon 30 Aug 2021.**

To apply and for more information go to:
https://asta.edu.au/programs/bush_blitz_teachlive



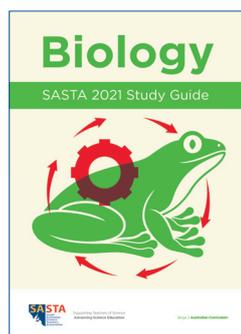
BHP

earthwatch
AUSTRALIA



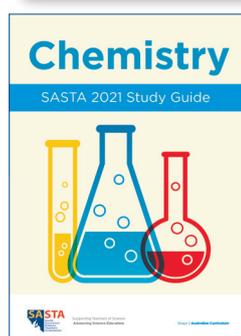
Australian Government
Department of Agriculture,
Water and the Environment

Preparing Students for Stage 2 Exams



2021 SASTA Study Guides

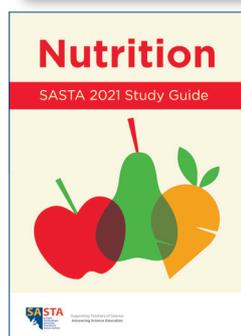
SASTA Study Guides are the complete resource for students preparing for Year 12 SACE exams. These guides include questions with worked solutions covering each topic in the subject outline and address all sections of the exam.



All guides include suggested solutions to the 2020 exams. The full range of new inclusions for each 2021 guide can be found on the SASTA website.

All SASTA Study Guides are \$29 each (plus postage if applicable) and are currently available for schools and individuals to purchase.

Please order online at sasta.asn.au/resources/online_catalogue/study_guides_stage_2



Stage 2 Trial Exams

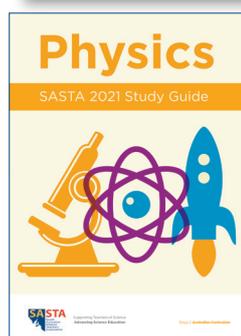
The SASTA SACE Stage 2 Trial Exams have been developed by leading teachers to support SACE Stage 2 Teachers. This vital resource will familiarise teachers and students with the SACE Stage 2 exam format. Teachers will be able to use the resource for students, a stand alone assessment tool or to develop exam preparation skills.

Based on feedback received in 2020, the Biology, Chemistry and Physics exams have been completely rewritten.

All exams are now available for purchase. \$132.00 per exam

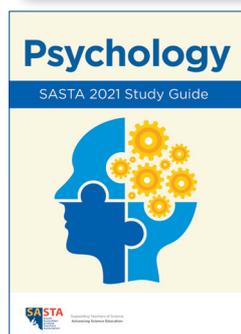
A fillable PDF version of the trial exam has been produced for Biology, Nutrition & Psychology.

Exams can only be ordered by emailing office@sasta.asn.au



Stage 2 Topic Tests

SASTA is excited to make available sets of Topic Tests that may be used as formative or summative Skills and Applications Tasks (SATs) in Stage 2 Biology, Chemistry and Physics.



These tests are of the highest quality and feature a comprehensive range of original questions including science understanding, science inquiry skills and science as a human endeavour.

There are 4 tests available for each subject. Prices start from \$100 for individual tests and bundles are available with SASTA Stage 2 Trial Exams.

For the full list of topics available, full price guide and purchase details visit sasta.asn.au/resources/online_catalogue/stage-2-topic-tests

Exam Prep Seminars

These seminars help students to get maximum benefit from their study time. Attendees will:

- meet the Study Guide editorial teams
- discuss exam techniques and receive hints for answering questions
- discuss the Chief Examiner's comments for last year's exam paper
- discuss the extended response requirements.

Attendees should bring their Study Guides with them.

Biology

Saturday 28 August 2021

2.30pm - 5.00pm

The University of Adelaide, Scott Theatre

Chemistry

Saturday 28 August 2021

9.30am - 12.00pm

The University of Adelaide, Scott Theatre

Psychology & Physics

Saturday 4 September 2021

2.30pm - 5.00pm

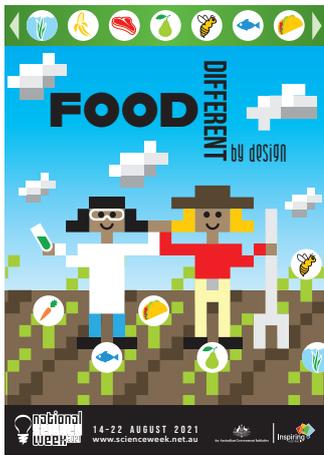
The University of Adelaide, Scott Theatre

All seminars are \$20 per attendee. Teachers accompanying a class group are free.

Register at www.sasta.asn.au/student_activities/exam_prep_seminar

National Science Week Resources

Food: Different by Design



This theme will honour the United Nations International Year of Fruits and Vegetables and the International Year of Creative Economy for Sustainable Development. Food: Different by Design will cover a broad range of areas in food production and sustainable

agriculture, enabling students to explore topics such as biosecurity, food technology and laboratory-developed foods. Scientific development will be at the core to the theme, with other hands-on projects for students to explore.

Resource Books

The Australian Science Teachers Association have developed a range of resources to support your teaching including a Resource book of ideas, Student journal and ASTA Indigenous resource book. They can all be found on the ASTA website: <https://asta.edu.au/programs/natscienceweek/>

National Science Week Website

Everything you need to know about National Science Week can be found here: <https://www.scienceweek.net.au/>

SASTA Blog

Check out the SASTA Blog for ideas of what other teachers did in their schools last year and in 2018! We have also compiled a list of National Science Week events happening this year: www.sasta.asn.au/about_us/sasta_blog

Let us know what you have planned this year to be included on the SASTA Blog!
Email Tegan at marketing@sasta.asn.au

Ever wondered about questions like...

Why do champagne bubbles rise faster than beer bubbles?

On what planets can aurorae occur?

What type of fire can't you put out with a carbon dioxide extinguisher?



Hosted by: Charlie Pickering

NATIONAL SCIENCE QUIZ

Test your knowledge, play along & win!

with guest panellists:

Join us online:
Thurs 19 Aug
5:30 pm ACST

REGISTER NOW:



Norman Do Jen Martin Jared Cole Alanta Colley Alan Duffy Catriona Nguyen-Robertson



NationalScienceQuiz.com.au



New Board Members

The SASTA AGM was held at the Annual Conference on Tuesday 13 April. With four board positions available, Anthea Ponte and Anita Trenwith were re-elected and Glen Arthur and Meegan Ballantyne were newly elected to the SASTA Board.

Glen has supported the Science community of South Australia for over two decades in schools and beyond them by providing high quality teaching in the Sciences and mentoring teachers of all career stages. Glen is currently working



at the SACE Board of SA as Education Innovation Project Officer where he is able to drive curricula and support the community through subject renewal, implementation and professional learning.

Glen has been an active supporter of SASTA by designing and delivering a variety of workshops, editing the Chemistry Study Guide and supporting the Oliphant Science Awards through RACI. As a newly elected board member, Glen continues to support SASTA and its decision making to help this exceptional community of practice in the sciences and reveal the wonder of science to our students and educators.

Meegan is currently Curriculum Leader, Implementation Support for the Department for Education, where she has had the opportunity to foster relationships with classroom teachers and leaders in schools.



Meegan is a passionate and experienced advocate for rigorous Science teaching and learning in our Primary Schools. Across her career, she has supported and led many primary classroom teachers and specialists through professional learning that was designed to improve the pedagogical content knowledge of those responsible for delivery of an often overwhelming curriculum. As a new SASTA board member Meegan brings a strong background in primary science and will continue to foster strong professional relationships and advocate for quality science teaching across South Australian schools.

The executive positions on the board were elected at the May board meeting with Peter Beveridge elected as President, Anita Trenwith as Vice-President and Peter Turnbull continuing as Treasurer.

We're looking forward to working with the new and continuing board members this year!

Biology: Levels of Life

Brian LeCornu and Tony Diercks

Biology: Levels of Life - Australian Curriculum Edition Textbook

\$63.40

This textbook provides detailed coverage of all the content (Science Understanding) of the SACE Stage 2 Biology subject. The new content is relevant, up-to-date and addresses Science as a Human Endeavour, with many examples throughout. It is attractively presented in full colour with numerous links to videos, animations, and useful resources. The textbook is divided into four topics, with each topic presented in chapters designed to make the material easy to follow, with study questions at the end of each chapter. Updated to match minor changes in the subject outline for 2020.

Biology: Levels of Life - Australian Curriculum Edition Workbook

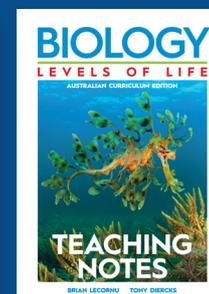
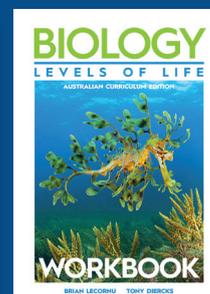
\$24.40

Written specifically to complement the textbook, this workbook covers all Science Understandings of the Biology subject outline. It can be used in conjunction with the textbook or on its own as an aid for understanding and revision. By completing answers to the workbook questions, students will develop their knowledge and understanding of biological principles and concepts.

Biology: Levels of Life - Teaching Notes

\$120.00

Teachers will find the Teaching Notes invaluable in ensuring that all Science Understandings are covered for each of the four topics. There are teaching tips throughout as well as additional information. Answers to questions in the Workbook will assist teachers in explaining concepts to students.





Online entries have been submitted and judging has commenced!

From late July

Science Writing, Scientific Inquiry and Multimedia entries are sent out to judges electronically. These must be judged and results returned to SASTA by Sunday 15 August.

Saturday 7 August

9.00am - 2.30pm

Programming, Apps & Robotics Judging Day. Students must book an appointment online by Wednesday 4 August.

Thursday 19 August

Crystal Investigation, Games, Models and Inventions, Photography and Posters are to be delivered. Ensure identification labels are firmly and clearly attached to each entry. Coordinators will be provided with more information regarding delivery of projects closer to the date.

Saturday 21 August

9.00am - 1.30pm

Judging of Crystal Investigation, Games, Models & Inventions, Photography and Posters.

If you haven't registered to be a judge this year but would like to come along, please contact the office to find out more!

Open Day

Sunday 22 August | 12.00pm - 4.00pm

Come and celebrate science and student achievement at the Oliphant Science Awards Open Day on Sunday 22 August, 12-4 pm at Festival Functions, Findon.

View the winning entries in the competition and check out live science shows and hands-on activity stations! Check the OSA website for more information.

Virtual Open Day

Keep an eye out on the website and social media at the end of August for our Virtual Open Day! You can check out all the winning entries and get some inspiration for next year.

Presentation Ceremony

All winners will be notified directly and invited to the presentation ceremony to be held Friday 17 September.

Oliphant Science Awards Blog Posts & 70th Anniversary Celebrations

We have been working with previous and current participants along with a range of Oliphant Science Award supporters to put together a range of resources, links and ideas to support you through this year's competition.

There are also a series of posts from previous OSA Trophy Winners and reflections from committee members over the years to celebrate 70 years of the Oliphant Science Awards.

Check out the Ideas for Teachers and Resources of Students available on the website www.oliphantscienceawards.com.au



Like us on Facebook!

www.facebook.com/oliphantscienceawards

1995 Oliphant Science Awards Winner - Kyra Reznikov

I have always liked solving puzzles and been curious about the world around me. I think that's why I enjoy science, and it's certainly why I love my job so much. Today I'm an environmental lawyer, and I wouldn't be where I am without my training in science and engineering.

My first entry in the Oliphant Science Awards won second prize in Years 8-9 Experiments. The next year I won first prize in that category. I submitted my third experiment in Year 11 in 1995, and that project, called "Breaking Down Proteins", won first prize in Years 10-12 Experiments, the RACI Chemistry Prize, the Soroptimist International of SA Prize, first prize for Senior Girls and the Oliphant Trophy. It also won the Chemistry and Biochemistry Prize at the BHP Science Awards.



"Breaking Down Proteins" was inspired by a concept that fascinated me, which was meat-eating plants. My experiment looked at protein-digesting enzymes (called proteases) that are found in fruit including papaya and pineapple and used in meat tenderising powder sold in supermarkets. I demonstrated the digestive effect of these proteases by turning egg white to a colourless liquid. One of my findings was that kiwifruit juice was more effective at breaking down protein than the commercial meat tenderiser. The whole experiment was done in my kitchen at home.

In Year 12 at Annesley College, I studied Mathematics 1 and 2, Physics, Chemistry and English Studies. At the end of Year 12 I won a scholarship from Comalco (part of the Rio Tinto Group) which was intended to encourage girls with problem solving and leadership skills to study Science or Engineering at University. Part of the scholarship package was the opportunity to have summer jobs at Comalco aluminium smelters.

I chose to study a double degree of Chemical Engineering and Law at the University of Adelaide. Towards the end of University, I spent a semester on exchange in New York at a law school that specialised in environmental law. Five days later I started as the Environment law clerk at Finlaysons Lawyers in Adelaide. That was January 2003, and eighteen years later I am still at Finlaysons, and have been head of the Environment and Planning practice since 2012.

My clients are developing mines, wind farms and hybrid renewable energy projects, making wine, building new housing, cleaning up historical pollution and providing various other products and services to the community. I help them understand their legal obligations, navigate through approvals processes and manage their risks. My technical background helps me understand what they do and how the law applies to them. I speak the languages of science and law. I wouldn't have it any other way.

The Advertiser, Saturday, October 28, 1995

'Warped sense of humor' brings top award

Kyra's labors bear fruit

By BRONWYN HURRELL
Kyra Reznikov is a bit of a fruit loop.

But her obsession with pineapples and paw-paws has won her the prestigious Oliphant Trophy for science.

Kyra, 16, of Annesley College, won the top prize at the Oliphant Science Awards for her entry "Breaking Down Proteins" - otherwise known as the meat-eating fruits.

Kyra's prize-winning experiment studied how enzymes found in pineapples, paw-paws, kiwi fruit and star fruit can break down protein like that found in meat.

She became interested in the topic when her Year 8 science class learnt about breaking down starch to glucose by using saliva.

"My friends say I have a warped sense of humor," laughed Kyra.

Her project, conducted on protein-rich egg whites and using the four fruit juices, simulated the process of gastric juices breaking down protein.

Kyra is only the third girl - and the first in 10 years - to win the trophy.

"A lot of people think girls

can't do science," said Kyra. "But I've grown up with enzymes and plants."

Kyra's mother is a biology teacher and her father a microbiologist.

Kyra plans to study Maths 1 and 2, Physics, Chemistry and English in Year 12 and hopes to follow a career in medicine.

As the winner of the Oliphant Trophy, she is going to Sydney and Canberra as a delegate to the Australian International Space School.

As a winner of the Special Secondary prize, she won a personal computer.

And for the best entry by a female student she received the Soroptimists' International Prize.

The awards, named after noted South Australian scientist Sir Mark Oliphant, were presented last night. The science competition has been run annually since 1981.

For the first time, school prizes of \$1500, from the Defence Science and Technology Organisation, were presented to Pembroke Junior School, Annesley College Senior School, Pembroke School, Murray Bridge High School and Hills Christian Community School (shared).



Kyra Reznikov... breaking down proteins.



To read the full article visit the Oliphant Science Awards website: www.oliphantscienceawards.com.au

Keep an eye on the website as we will be featuring a past trophy winner on the OSA Blog each month!



THE UNIVERSITY
of ADELAIDE

YOUNG SCIENTIST OF THE YEAR VIDEO COMPETITION

Know the next climate change hero or environmental game-changer?

Challenge your curious kids to think big (and win big) by entering this curriculum-linked competition for Years 7-10.

They could be named the University of Adelaide Young Scientist of the Year, plus win \$500 for themselves and \$1000 for your school!

All they need to do is make a short video on an environmental problem or solution in energy & critical minerals, wildlife conservation or agriculture.

For teacher resources, including how to integrate the competition into your classroom and tips for getting kids started, visit:

careerswithstem.com.au/young-scientist-video-comp

Let's make Adelaide a National Park City

School's Project

SASTA members and experts in Environmental Science met on Wednesday night (23rd June) at the University of Adelaide to discuss opportunities for schools to contribute to the Adelaide as a National Park City project. The group was led by Professor Robert Hill, Director, Environment Institute, The University of Adelaide and Prof Chris Daniels, Presiding Chair of the Green Adelaide Landscape Board. Teachers heard from research scientists such as Dr Katja Hogendoorn who spoke about the Green Carpenter Bee conservation project, initially started on Kangaroo Island, the focus of this project has recently expanded due to the impacts of the 2020 catastrophic bushfires. Dr Erinn Fagan-Jefferies also spoke about Insect Investigators, a research project that involves schools partnering with her to run insect traps to collect parasitic wasps. Teachers were invited to connect with these and the other highlighted projects. A List of Contacts for those who want to connect with existing projects can be found here: <https://bit.ly/3xYYt2>

Support for School Based Projects

The feedback from this first meeting of teachers, overwhelmingly referred to the need for support to either continue or commence a school project that could contribute to Adelaide becoming a National Park City. Teachers were looking for advice on what constitutes a worthwhile and scientific project, what steps they should take to plan and then commence the project, how to assess the impact of the project and how to access support.

Our next step is to create a Schools Project Website. The website will hopefully offer teachers accessibility to expert advice on how to plan, implement and review a project, and a register of successful projects as a model for teachers to learn from. In addition, the website will offer support in grant writing, a register of grants available to school and some exemplars.

Lots of things are already happening in Adelaide, and by working, learning, sharing and acting together, we can achieve even more. Look out for more information on the SASTA website as we work towards developing these resources.

You can visit the Adelaide a National Park City website here:

<https://www.adelaidenationalparkcity.org/>

ADELAIDE NATIONAL PARK CITY*

RESEARCH PROJECT WORKBOOK & GUIDE FOR SACE STAGE 2

This step-by-step workbook guides students through the three parts of the Research Project: the Folio, the Research Outcome, and the Evaluation/ Review.

Students are guided through activities and supported with information to enable them to: generate an idea; develop a research question; plan, conduct and analyse research; and then structure a research outcome and an evaluation or review with a focus on achievement of the performance standards (at a high level).

Along with activities and information, the workbook also includes sections that enable students to organise and store hard copy project material.



\$39.00 each



**STEM
DAY OUT**

Provides Year 7-12 students a window into the wide variety of STEM careers available in South Australia.

SEMINAR
for female
high school
students
(yrs 10-12)



**Women
IN STEM**

Explore a STEM career pathway with presentations from leading female scientists, engineers and professionals.

19 NOVEMBER

**SCIENCE
ALIVE!**
20-21 NOVEMBER
ADELAIDE
SHOWGROUND
sciencealive.net.au

Register online: <https://www.sciencealive.net.au/stem-for-schools>

Science Alive! Teacher Workshops

Finding STEM in the Science Curriculum Workshops

Friday 19 November | 10.00am or 1.00pm

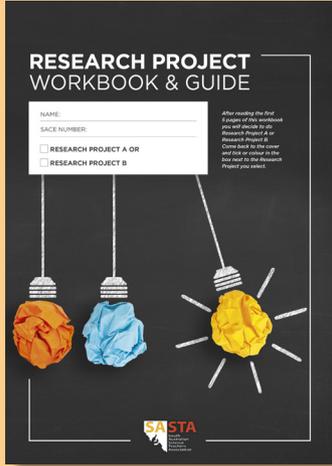
This is a FREE Teacher Professional Learning Workshop for teachers attending the STEM Day Out at Science Alive.

The goal of the workshop is to provide teachers with a simple, practical process for implementing meaningful STEM challenges in the Science classroom. Teachers will explore exemplar tasks that incorporate engineering practices and design processes. The tasks and resources aim to give teachers the experience and support they need to plan and deliver STEM focussed lessons that highlight the design thinking required in engineering.

This structured approach will provide teachers with a clear process and a wealth of resources for implementing an effective STEM teaching and learning program.

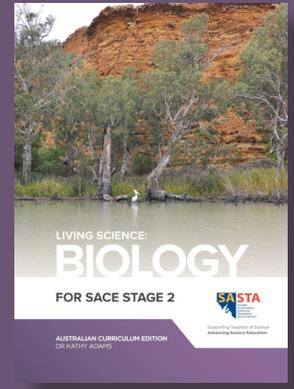
Register online at www.sasta.asn.au

**RESEARCH
PROJECT
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FOR SACE
STAGE 2**



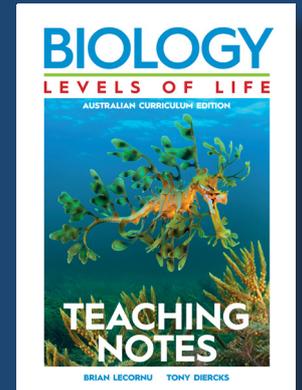
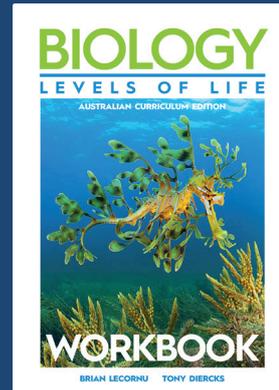
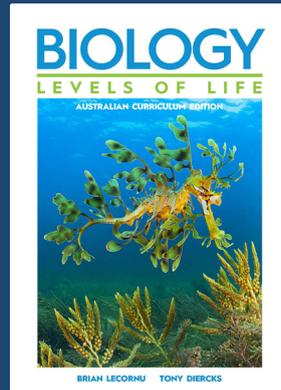
Textbooks

**Living
Science:
Biology**



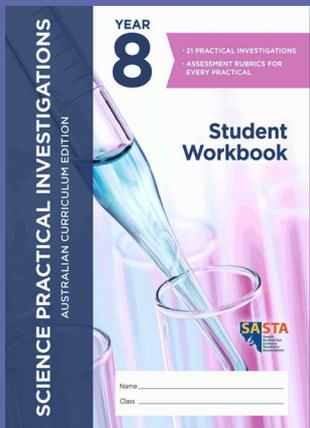
Biology: Levels of Life

SACE Stage 2

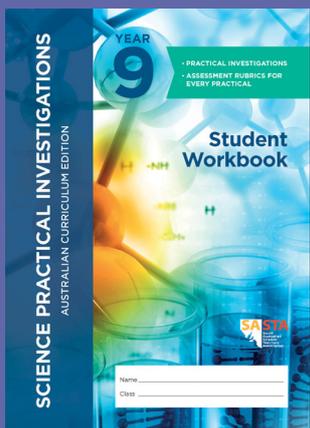
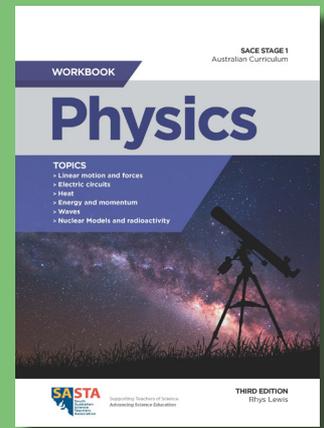
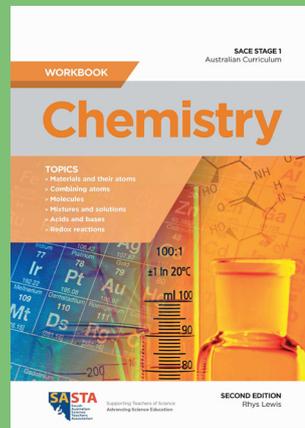
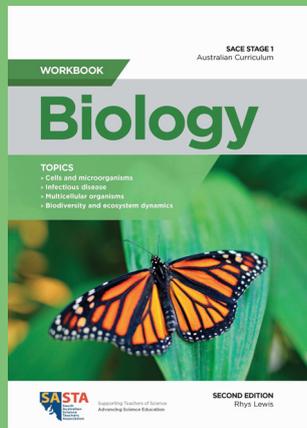


Year 8 & 9

Student workbooks



SACE Stage 1



SACE Stage 2

