



SASTA

February 2022

Newsletter



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Upcoming Events

Teachers new to teaching Stage 2 Science

These workshops will all be held online

- **Biology** - Friday 11 February 2022
- **Physics** - Friday 11 February 2022
- **Chemistry** - Friday 18 February 2022
- **Nutrition** - Friday 18 February 2022
- **Psychology** - Friday 25 February 2022
- **Scientific Studies** - Friday 25 February 2022

See page 4 for more details.

Explicitly teaching the literacy of science: improving literacy to improve science (year 3-8)

Friday 4 March & Thursday 24 March 2022

See page 4 for more details.

SASTA Annual Conference - Call for Workshops

11-12 July 2022

See page 4 for more details.

Oliphant Science Awards

Student registrations close Friday 20 May 2022

Open Day at Science Alive! 5-7 August 2022



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@SASTAInc



Follow us on Twitter
@SAScience

South Australian Science Teachers Association Inc.

Association member of the Australian Science Teachers Association (ASTA)

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Professor Caroline McMillen, Chief Scientist for SA

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Trenwith

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Glen Arthur
Meegan Ballantyne
Katrina Elliott
Katie Gloede
Dina Phan
Anthea Ponte

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(Co-Chairs)

Oliphant Science Awards

Peter Turnbull & Anita
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(Co-Chairs)

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Newsletter copy deadlines 2022

(Advertising deadlines one week earlier)

Edition	Deadline
February	14 January
May	15 April
August	15 July
November	14 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 all to the first newsletter for 2022. Once again as educators we find ourselves pivoting and adapting to the ever changing environment of the current pandemic. Despite the uncertainty of the return to school for

many students, I remain confident that the science teacher community in South Australia is strong and will continue to provide a high quality education for all, as you all have throughout the past two years.

2021 had a large number of highlights which I outlined in the previous edition and no doubt 2022 will be similar.

The professional development calendar for 2022 is ever growing with some exciting new additions this year along with our headline events and I look forward to seeing many of you at these events throughout the year.

All the very best for the year ahead!

Pete Beveridge

Have you renewed your membership for 2022?

Thank you to those who have recently joined SASTA or renewed their membership for 2022.

If you haven't had a chance to renew your membership yet, this can be done on the SASTA website:

www.sasta.asn.au/renew/form

Personal Membership prices have all been reduced - Personal Members are now \$95 and there is great pricing for 1st & 2nd year teachers and student members. Check the website for full details.

We already have a number of professional learning activities confirmed for Term 1 plus the Annual Conference in July, so if you're interested in attending any of these events your 2022 membership will need to be paid before you register to be eligible for the member price.

We look forward to working with you in 2022!

If you have any questions, see the Membership FAQ on the website or contact the SASTA office.

School Projects

We're excited to have a **NEW school projects page on the SASTA website** to make it easier to access the projects your school could be involved with. For more information visit: www.sasta.asn.au/school-projects. We also have a few exciting new projects to come! Check out page 5 for one of them.

Home | School Projects

SASTA SCHOOL PROJECTS

Insect Investigators

Applications close 15 October

Insect Investigators

POSTED BY SASTA ON 17 SEP 2021

SASTA are a proud partner in the Insect Investigators Citizen Science Project! Insect Investigators is now open for applications from regional and remote schools in Qld, WA and SA to join the project... [more...](#)

Bush Blitz TeachLive - coming to SA!!

POSTED BY SASTA ON 27 JUL 2021

Bush Blitz is Australia's largest nature discovery project involving specialist taxonomists, indigenous communities, rangers and landowners, teachers, students and BHP employees. Through a partnership between the Australian

Premier's Reading Challenge

POSTED BY SASTA ON 3 MAY 2021

SASTA and the Oliphant Science Awards are proud to be partnering with Inspiring SA and the Premier's Reading Challenge (PRC) to support this year's STEM Reading and Design Challenge. The challenge encourages students... [more...](#)



Join primary and secondary teachers and other members of the science education community at SASTA's 2022 Annual Conference.

Due to COVID restrictions and concerns the Conference has been re-scheduled for 11-12 July 2022 (Term 2 school holidays).

The theme of the Conference is 'Let's Talk Science!' with a focus on **scientific literacy in science**. The Conference will include specialised workshops for both Primary and Secondary Teachers

Call for Workshops

The Call for Workshops is now open. When determining the focus of your presentation, you may wish to consider the following prompts:

- Literacy strategies and practices that enable individuals to understand, synthesise and communicate Science content knowledge.
- What are the highly evidenced reading, viewing, writing, speaking, and listening strategies that students should use to access, understand and communicate scientific knowledge and understanding?
- Technical and non-technical language of the Australian Curriculum: Science.
- Strategies that support the development of student's understanding of scientific concepts, phenomena and processes, and their ability to apply this knowledge to new, unfamiliar and, at times, non-scientific situations.

- How do we support students to foster the love of reading in science? How do we ensure diverse learners are able to meet the complex demands of reading for science?
- What are the range of texts students are exposed to and must write in our classrooms? How do we support our students to write these texts considering the technical language and genre?

Workshop submissions close on Friday 8 April.

For more information and to submit your workshops visit:

www.sasta.asn.au/professional_learning



Prices start from \$75 for individual tests and bundles are available with SASTA Trial Exams. For the list of topics available, full price guide and purchase details visit www.sasta.asn.au

Mary Anning Art Prize

Aim of the competition

The aim of the Mary Anning Art Prize is to have young South Australian artists create an original piece of artwork that tells us something about the prehistoric life of South Australia. It is essential, to be eligible, that the artwork explores an element of South Australia's rich and remarkable prehistoric past, and that the artist lives in South Australia. To explore and illustrate our own past is to better know who we are as South Australians, and to better understand our unique place in the history of life.

While all visual art-forms are eligible, each entry must be presented in the form of a single photograph of the artwork.

What makes a successful entry?

- Scientific accuracy, creativity, and originality
- The best art isn't just a picture, or a sculpture. It tells a story!

Opening and Closing Dates:

Submissions open - March 2022

Submissions close - June 2022

Entry categories:

- Reception to Year 2
- Year 3 to Year 5
- Year 6 to Year 8

Prizes

1st, 2nd & 3rd prizes will be awarded in each year group category. Plus a People's Choice Award.

Full details of the competition can be found on the SASTA website: www.sasta.asn.au/



The Story of Mary Anning

Born in 1799, in the town of Lyme Regis in England, Mary Anning discovered the skull of an ichthyosaur with her brother Joseph, when she was just 12. Several months later, Mary found the rest of the skeleton. It was to be the first of many discoveries by Mary, in her local area, known as the Jurassic Coast. Legend has it that the poem "She sells seashells by the seashore" may have been written about her, as in order to make money for the family, Mary sold seashells and fossils.

At the time, women weren't allowed to belong to the Royal Geological Society, and Mary's name never appeared in the research done on her discoveries. She did not, however, give up her passion, and with her best friend, her dog Tray at her side, went on to discover plesiosaurs, ammonites, pteranodons, and so much more. Mary was also one of the first people to realise that some interesting looking rocks she'd discovered, were fossilised poop! While Mary Anning was not officially recognised, or allowed to join their organisation, the men of the Royal Geological Society, came to rely on her expertise.

SASTA Stage 1 & 2 Topic Tests

All new for 2022

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 1 & 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.

- Each test is fully editable and comes with a comprehensive set of solutions which allows educators to modify each test depending on the capabilities of their student cohort.
- Each task has a range of questions that vary in difficulty and are challenging enough to differentiate students with good core knowledge from those capable of applying knowledge in context.
- The SHE questions can be part of the tests or you can remove them and use them as stand-alone tasks to develop student knowledge, understanding and ability in responding to these questions.

2022 SASTA Awards

There are many great teachers out there that SASTA would like to acknowledge, and celebrate their outstanding achievements and contributions to the science community. This is your opportunity to nominate a colleague or share your accomplishments! There are a number of Awards for SASTA members:

SASTA Medal

SASTA offers its members an award for excellent contribution to science education or teaching or both. The SASTA Medal is awarded to an individual who has made a significant contribution to SASTA and has been active in science education.

Credit Union SA / SASTA Outstanding Contribution to the Teaching of Science Awards

The Outstanding Contribution to the Teaching of Science Awards recognise teachers' contributions to the education of students in science.

Helen Castle Memorial Scholarship

This scholarship is in memory of Helen Castle, a dedicated and enthusiastic science teacher who tragically died during the Eyre Peninsula bush fires in 2005. The scholarship is designed to assist country science teachers attend the SASTA Annual Conference and gain professional development to assist themselves and other country teachers to maintain a high standard of science teaching in country areas. Two (2) scholarships of \$500 will be awarded to enable country-based science teachers to attend the SASTA Annual Conference.

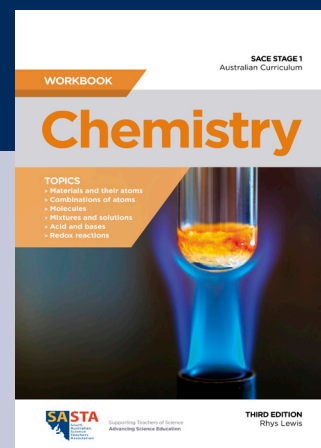
Nominations close Friday 13 May 2022 at 4.00pm. Online nomination forms and full award criteria can be found at www.sasta.asn.au/about_us/awards

Notice of Annual General Meeting

Notice is given that the 2022 Annual General Meeting of members of the South Australian Science Teachers Association Incorporated will be held on Friday 29 April at 10.10 am for the purpose of transacting the items of business listed below.

Agenda

1. Welcome and Apologies
2. Minutes of the 2021 AGM
 - (a) Acceptance
 - (b) Business Arising
3. President's Report
4. Treasurer's Report
5. Election of Board Members
6. General Business
 - (a) Membership Fees
 - (b) Appointment of Auditor
7. Any Other Business



The Third Edition of the popular SASTA Stage 1 Workbooks set students on the path to success in their study of science through their clear and engaging narrative, innovative use of art and photos, and superior contextual questions that enhance teaching and learning.

Call for SASTA Board nominations 2022

South Australian Science Teachers Association
ABN 22 938 317 192

Closing date: 5.00 pm 1 April 2022

Call for nominations

All members of SASTA are hereby notified of a call for nominations for two (2) positions on the Board.

Composition of the Board and terms of office

The board consists of up to nine (9) elected members who shall hold office for a term of three (3) years. Continuous elected membership shall not exceed nine (9) years.

Responsibilities of Board Members

The Board governs SASTA and has overall responsibility for determining the strategic plan and priorities, monitoring implementation and developing a resource base to support the organisation's activities. It is also responsible for the financial viability of SASTA and ensuring compliance with statutory requirements applicable to an association. All Board members are required to act in what the Board considers are the best interests of the organisation, being the interests of the membership as a whole.

Nominees should be aware that there are at least six Board meetings each year for the purposes of corporate governance of the organisation. There is an emphasis on policy and, specifically, corporate governance. The Board is not involved in the day to day running of the association's business.

Position description and nomination form

A Board Member position description and nomination form is available on the SASTA website in the 'Members Area'.

NOTE: Only Personal Members are entitled to vote and hold office in the Association. Each Corporate Member shall be entitled to one vote by a nominated delegate acceptable to the Board in elections of the Association but no such delegate shall be entitled to hold office through Corporate Membership nor may Corporate Members nominate others for office.

Further information

Members interested in nominating for the Board are welcome to contact Kate Dilger, Executive Officer, on 8354 0006 or email kate@sasta.asn.au if they require further information.



The workbooks provide an unmatched comprehensive text fully mapped to the Stage 1 Biology, Chemistry and Physics courses in South Australia.

SACE Stage 1 Workbooks

ALL NEW | Third Edition now available!

\$59.00 each

- concise, accessible, and engaging with a clear emphasis on developing the reader's ability to apply their knowledge in new and familiar contexts rather than simply recalling it.
- develops critical thinking, problem-solving skills, comprehensive factual knowledge.
- new Chapter Questions incorporating Science Understanding, Science Inquiry Skills and Science as a Human Endeavour (SHE).
- new Review Tests.
- comprehensive set of solutions to all Chapter Questions and Review Tests.
- hundreds of new illustrations that engage students while simplifying complex concepts.

Professional Learning for Term 1 2022

Teachers new to teaching Stage 2 Science

ALL Workshops will be delivered ONLINE

Some of the key topics covered in these workshops include: an overview of the course, planning and assessment, sample tasks and discussion and moderation.

Participants will be given the opportunity to share and discuss ideas, tasks and other resources for teaching the new course.

Biology

Friday 11 February

Presented by Kathy Adams
(Horizon Christian School)

Physics

Friday 11 February

Presented by Michael Smith
(Concordia College)

Chemistry

Friday 18 February

Presented by Glen Arthur

Nutrition

Friday 18 February

Presented by Elizabeth Arthur
(Nazareth Catholic College)

Psychology

Friday 25 February

Presented by Carolyn Pinchbeck
(Xavier College)

Scientific Studies

Friday 25 February

Presented by Helen Godfrey

Improving Science Literacy

Friday 4 March & Thursday 24 March 2022

9.00 am – 3.30 pm

Presented by Tony Hole, Catholic Education
South Australia

Explicitly teaching the literacy of science: improving literacy to improve science

There are significant differences in the ways Learning Areas use literacy: differences in the types of written texts that students read, speak and write; differences in the ways those texts are structured; and differences in the kind of language features and vocabulary that students are required to know and use.

One aim of teaching Science is that students are able to communicate scientific understanding and findings to a range of audiences. (Australian Curriculum: Science) Through learning to read, speak and write science texts, students build and deepen their scientific understanding.

This course develops participants' capacity to explicitly teach the specific literacy of science at the same time as teaching the science content.

In this course, participants will learn to:

- apply and design teaching and learning strategies that scaffold students' development and control of science literacy
- provide explicit feedback to students on their writing in science
- implement reading strategies: before during and/or after reading to draw attention to the language and structure of the text- how it is working to build science knowledge and understandings.

The course is structured over two days.

Intended audience: science teachers for years 3-8

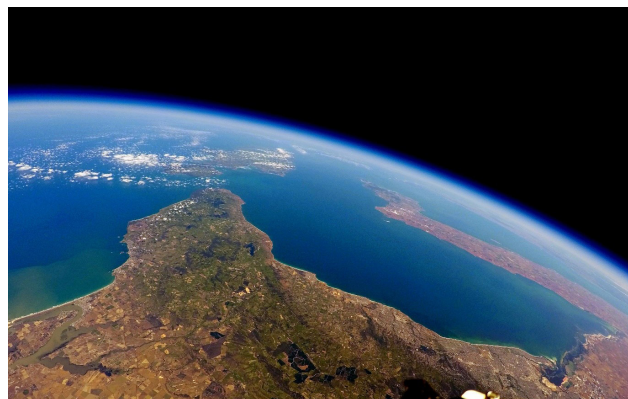
Professional learning calendar

Start planning your professional learning for 2022! You can download the SASTA Professional Learning Calendar as a PDF on the website.

Go to www.sasta.asn.au/professional_learning

Prescott Southern Physics students fly into the stratosphere

Toward the end of 2021, Year 11 students at Prescott College-Southern successfully flew a balloon to an altitude of 31 km over Adelaide and surrounds. Launched from Paris Creek in the Adelaide Hills, the payload (which comprised both cameras and sensors) was tracked and recovered 2.5 hours later near Strathalbyn.



The flight yielded images showing the entirety of Kangaroo Island, Yorke Peninsula, the Fleurieu Peninsula and metropolitan Adelaide. Also, the entirety of the Coorong ranging from the Murray Mouth and Lake Alexandrina southwards to Kingston and Cape Jaffa.

The students nicknamed their flight "Operation Spaceboy." Using the on-board sensors they were able to record altitude, air temperature, air pressure, groundspeed and GPS coordinates throughout the flight and graph each of these post-flight. A minimum temperature of -47.8 oC was reached at 14.7 km altitude. The maximum ground speed attained was 103 km/hr at 13.5 km.

They produced an AO sized poster (available to view on the SASTA website) to summarise their flight and this is now on permanent display in their classroom.

This was the 5th High Altitude Balloon Flight conducted by physics students at Prescott College-Southern. All have been very successful.

Check out the SASTA Blog for the full article and photos: www.sasta.asn.au/about_us/sasta_blog

BIOLOGY: LEVELS OF LIFE

Brian LeCornu and Tony Diercks

\$29.95

Biology: Levels of Life - Australian Curriculum Edition Textbook (\$63.95)

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. 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. **A complimentary 15 month subscription to the e-book is available with every hard copy purchased.**

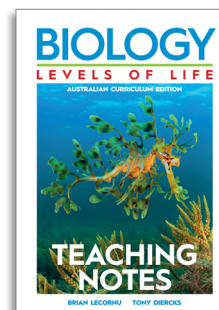
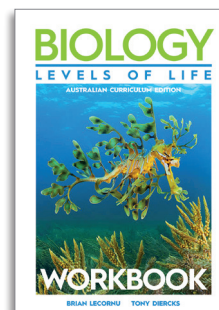
Biology: Levels of Life - Australian Curriculum Edition Workbook (\$24.40)

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.

NEW for 2022
The Biology: Levels of Life Textbook is now available as an e-book!
For full details visit the SASTA website.



2022

SASTA OLIPHANT
SCIENCE AWARDS

STUDENT REGISTRATIONS
CLOSE FRIDAY 20 MAY

SA'S LARGEST
SCIENCE
COMPETITION

It's time once again for School Coordinators to register and download the information booklet from the SASTA Oliphant Science Awards website:

www.oliphantscienceawards.com.au

We're very excited to partner with Science Alive! for our Open Day event in 2022! Models & Inventions entries and winning entries from all other categories will be on display from Friday 5 August - Sunday 7 August 2022 at the Adelaide Showgrounds. This means there have been changes to the key dates for next year's competition.

The website and booklet have everything you need to know about this year's competition, including registration fees, deadlines, rules, forms, and titles (where relevant).

Please note that each school (or school campus) can only have ONE registered Coordinator.

Key dates

- **Friday 20 May:** Student registrations close
- **Friday 20 May:** Judges registrations close
- **Friday 10 June - Friday 1 July:** Multimedia, Science Writing and Scientific Inquiry entries and Reports for Programming, Apps and Robotics MUST be submitted online
- **Monday 25 July - Friday 29 July:** Crystal Investigation and Models & Inventions reports / risk assessments MUST be submitted online - NEW for 2022. Supporting documents for Games may also be submitted

- **Saturday 30 July:** Programming, Apps & Robotics Judging Day
- **Tuesday 2 August:** Crystal Investigation, Games, Models & Inventions, Photography & Poster entries to be delivered.
- **Friday 5 - Sunday 7 August:** Open Day at Science Alive!
- **Friday 21 October:** Presentation Ceremony

New & Country Schools Incentive

Schools who have not participated in the past five years OR country schools needing assistance for participation in the Oliphant Science Awards are eligible to apply for support.

Recipients will have the opportunity to enter the Oliphant Science Awards with the provision of up to \$200.00 allocated towards entry project registration fees. For all details and to register visit the website.

Closing Date: Monday 14 February

Rowe Scientific Regional Science & Engineering Awards

- Entry is open to students in remote and regional schools*
- Entry in Models & Inventions and Scientific Inquiry categories only
 - Entries will be judged in both the overall competition and the Regional Science & Engineering Awards.

*See the Information Booklet for more details.

Living Science: Biology

Teachers will find these textbooks an invaluable resource for planning and developing student knowledge as it has comprehensive coverage of the science understandings of the Stage 1 & 2 courses. Students will find it a great resource to complement lessons and will develop a broader knowledge of Biology across many different contexts.

‘Did you know?’ breakout boxes throughout the text include related stories, concepts, perspectives and facts to help engage students in deeper learning.

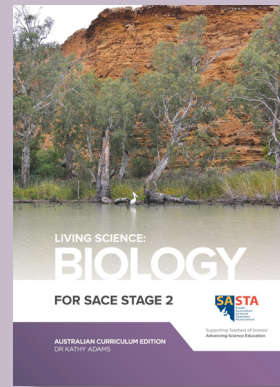
‘SHE Alert’ boxes are connected to the four SHE Key concepts: Communication and Collaboration, Development, Influence, and Application and Limitation.

These sections give students and teachers opportunities to consider how science and society interact to find solutions and overcome problems.

There are review questions throughout the books and at the end of each chapter. The Stage 1 textbook also has a list of possible Deconstruct and Design ideas at the end of each chapter, which could be used by the teacher to develop tasks. **Solutions are now available for both textbooks.**



\$49.00 each



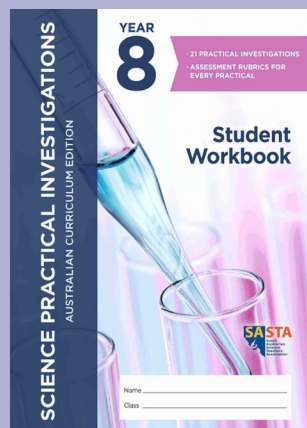
\$54.00 each

STUDENT WORKBOOKS



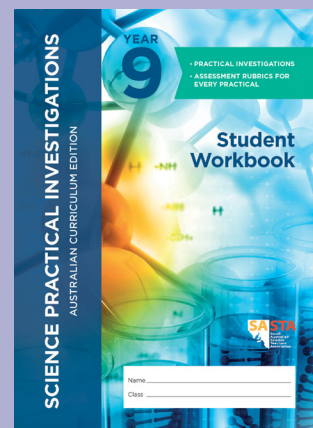
These write-in workbooks guide students through practical investigations, encouraging them to practice and enhance their inquiry skills, design procedures and answer questions about their learning.

- Explores Biological sciences, Chemical sciences, Earth and Space sciences and Physical sciences for the Year 8 or 9 Australian Curriculum
- Explanations of how to work scientifically, including manipulating variables, graphing and measurement
- Emphasis on science inquiry skills
- Assessment rubrics for each practical
- These workbooks reflect the current emphasis on STEM skills through the inclusion of Engineering Design Challenges



\$18.50 each

minimum order 20 copies

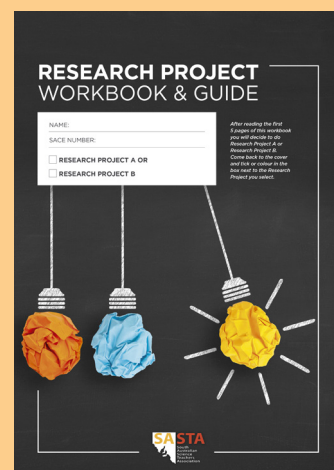


RESEARCH PROJECT WORKBOOK & GUIDE FOR SACE STAGE 2

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

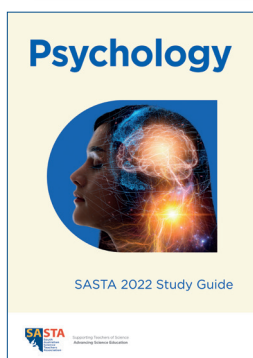
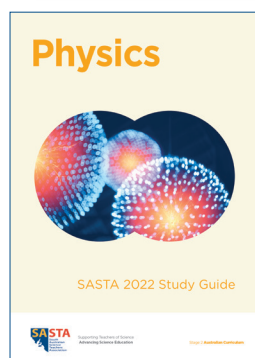
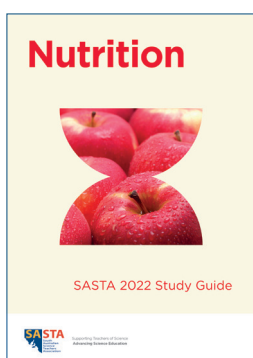
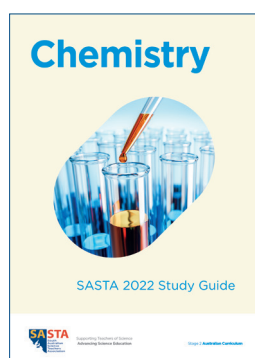
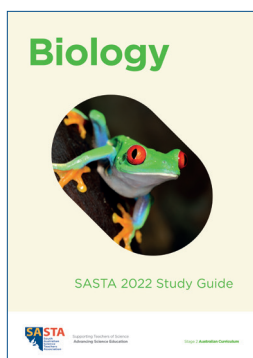
Available from sasta.asn.au

2022 STUDY GUIDES

Pre-order your copies now to ensure you don't miss out!

SASTA Study Guides are the complete resource for students preparing for Stage 2 SACE exams. These guides include questions with worked solutions covering each topic of the Subject Outline and address all sections of the exam.

\$29 each
+ delivery
or collect
orders from the
SASTA office



All new for 2022:

- Suggested solutions to the 2021 exams.

Biology

- All sections reviewed and any parts to questions beyond the scope of the course have been removed or modified.
- New questions have been added to all sections.
- New SHE questions added.

Chemistry

- All sections reviewed and any parts to questions beyond the scope of the course have been removed or modified.
- New exam-style questions added.

Nutrition

- A range of questions with worked solutions for each topic of the Subject Outline.
- Science Inquiry Skills & Science as a Human Endeavour chapters have been reworked allowing students to successfully prepare for both assessment types.
- Additional SHE exam-style questions have been added to allow for greater test and exam preparation.
- The inclusion of the 2021 SASTA Trial Examination and worked answers further supports students in their exam preparation.

Physics

- Revision questions updated and new questions added.
- Solutions to questions updated to align with course requirements and expectations.
- Updated formatting of questions and solutions.
- All sections reviewed to align with the 2022 Subject Outline.

Psychology

- All sections reviewed.
- The Study Guide reflects the NEW Course for Stage 2 Psychology to be taught in 2022.
- All sections reviewed and any parts to questions beyond the scope of the course have been removed or modified. New questions added to support the new subject outline.
- Inclusion of a Trial Examination and suggested answers.

Study Guides are due for delivery to SASTA in June 2022

Available to pre-order at sasta.asn.au