

SCIENCE &
MATHEMATICS

ISSUE 3

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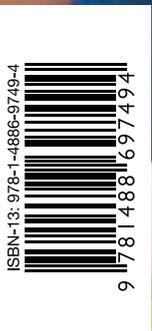
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AUSTRALIAN SCHOOLS EDUCATION MAGAZINE



V4 Term 4, 2016 • FREE (inc GST)



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Artificial intelligence: future of education?

Viewing technology not as a disruptor
but as a tool for innovation in education

Managing Director of Pearson Australia, David Barnett believes that exploring the huge potential benefits of digital technology and Artificial Intelligence (AI) can put educators in the driving seat, towards the future of education.

In his keynote speech during the 2016 EduTECH Leader's Congress, he discussed the potential benefits of AI in taking education to the next level. With nearly three decades of experience in education, he explained how he has witnessed many institutions and educators struggle to keep up with the rate of digital technology, and what this means for education.

TECHNOLOGY - DISRUPTOR OR INNOVATOR?

Digital technology is frequently seen as a distraction to education, as opposed to a learning tool. Challenges arise when institutions and educators are not confident in their capacity to properly maximise the use of these digital learning products, and revert to old methods. This can result in a massive waste of resources, and loss of opportunity in learning.

Barnett explains that "as recently as two months ago, we saw one high profile school ban laptops from classes, instead making students hand write assignments and essays until Year 10, claiming that computers are a distraction."

But this needn't be the case. With digital technology integrated into education, and supportive structures in place, he believes that in turn this technology will increase student productivity and participation.

MODERN LEARNING FOR A MODERN WORKPLACE

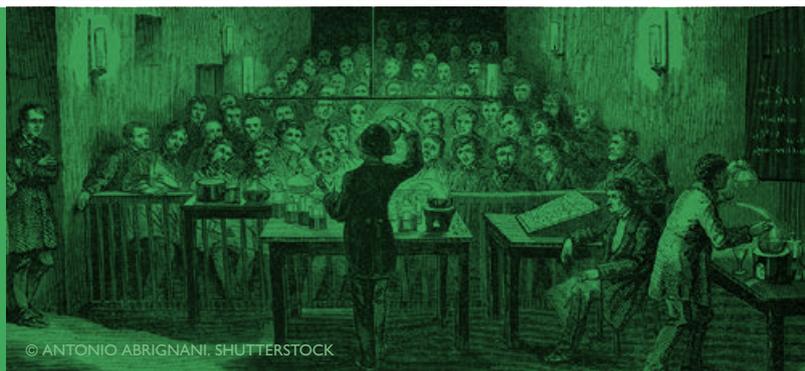
Barnett expressed that the fear of change from the progress of technology can hinder some educators from fully embracing the learning potential of technology. In turn, he paraphrased Greg Whitby, Executive Director of Schools at the Catholic Diocese of Parramatta. 'It always surprises me to hear people talking about going back to the "good old days" of schooling but no one ever talks about returning to the good old days of medicine! Would you get your tonsils removed at a hospital that was built in the 1930s and hasn't changed since?'

A key takeaway was that acknowledging and embracing the advancement of technology is crucial. Barnett noted that it will give learners the confidence to develop the right skills, and to be adaptive and resilient in a rapidly changing world.



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“IT ALWAYS SURPRISES ME TO HEAR PEOPLE TALKING ABOUT GOING BACK TO THE “GOOD OLD DAYS” OF SCHOOLING BUT NO ONE EVER TALKS ABOUT RETURNING TO THE GOOD OLD DAYS OF MEDICINE!” Greg Whitby



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INTELLIGENCE UNLEASHED

Rather than resist the inevitable, Barnett encouraged educators to learn and harness the power of AI, in order to better equip students with the skills needed to excel in an ever-changing workforce. Citing a recent Pearson research report, he stated that ‘as humans live and work alongside increasingly smart machines, our education systems will need to achieve levels that none have managed to date. True progress will require the development of an AI education infrastructure, that will resemble the marketplace that has developed for smartphone apps.’

TODAY’S SKILLS FOR TOMORROW’S WORKFORCE

Barnett explained Pearson’s belief that the ultimate goal of education is not only knowledge but employability as well. Therefore, the education industry should embrace technology at the same level as businesses do in order to remain relevant.

He emphasised the importance for students to adapt, in the same way as many companies are by combining AI with cloud and mobile. Of course, this is only the beginning of something bigger.

Referencing Gartner analyst Tom Austin, David Barnett explained that ‘we are are creating and moving artificial intelligence to the cloud. Microsoft currently offers more than 20 cognitive services, such as analysing images, known as computer vision, and language comprehension.’

HUMANS AND THE EXPERTISE BEHIND TECHNOLOGY

It is important to note that embracing modern technology and AI does not mean the surrender of control for educators. In order for AI learning tools to be successful, educators should play a key role in their design. Therefore, there must be some discourse between human education, technical expertise and the AI of a machine.

The future of education will only be in the hands of educators if they choose to embrace, and master intelligent technologies.



Read an extended account and add your thoughts on the subject at www.pearson.com.au/community/in-conversation.



Embracing an uncertain future

How education can prepare students for the VUCA world

CLWB is a UK based organisation that works with schools and education-related companies to improve STEM/D attainments and enable young people to become innovative and entrepreneurial.

In this excerpt from the vision paper *Amplifying Innovation, Creativity and Intelligence with Technology*, CLWB founder Mike Lloyd outlines the immense changes the digital revolution is bringing to our world, the challenges this presents to young people planning their future, and the importance of change in the education system to meet these challenges.

“THE EFFECT OF TODAY’S TECHNOLOGY ON TOMORROW’S JOBS WILL BE IMMENSE - AND NO COUNTRY IS READY FOR IT. SCHOOLS NEED TO BE CHANGED, TO FOSTER THE CREATIVITY THAT HUMANS WILL NEED TO SET THEM APART FROM COMPUTERS¹.”

In the last 60 years we have witnessed a revolution equal in magnitude to the transition to the modern world from the Middle Ages. Technologies are disrupting sectors and even whole industries faster than ever, and our young people will need to be ready for volatile, uncertain, complex and ambiguous (VUCA) futures. Increasing volatility, uncertainty, complexity and ambiguity is making progressive educators around the world rethink how education services should be delivered.

WHY THIS PAPER?

This paper explains how educators can embrace the forces of change and help to prepare students for the VUCA world they will encounter. For students with the right mix of skills and knowledge, VUCA will represent exciting opportunities for satisfying careers and personal growth. For schooling systems that take full advantage of technology, VUCA will represent opportunities to add greater value, impact and effectiveness. The purpose of this paper is to propose not just a “what” but a “how”. In order to develop a citizenship able to thrive in a VUCA world, the entire education system needs to evolve, and innovative schools and a platform for innovative learning should underpin this evolution. The core proposition is that innovation - the skillset itself and its application in education - is key to dealing with VUCA, and the boundaries between formal learning and applied innovation should be blurred.

VUCA isn't something to be feared - it's something to be embraced and prepared for. Journalist and author Clive Thompson, in his book “Smarter Than You Think”², writes that in the future, we should not fear being ‘beaten’



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by computers. Instead, humans will find themselves working in partnership with computers to become smarter. Human-computer symbiosis is already enhancing our intellect,³ and the use of digital devices and social networks helps to facilitate collaborative creativity, irreversibly changing how we think, work and live.

Some would argue that technology is eroding essential skills, but every generation has had its fears that new technology would have a detrimental effect. For example, Plato lamented that the invention of writing meant that we would lose the capacity for memory that characterised oral cultures, that by learning through reading alone rather than in conversation with a learned teacher we would lose the substance of wisdom.⁴ Whether we like it or not, technology is changing the world around us and its continued evolution and us and disruptive effects are inevitable. Therefore, we need to learn to take advantage of it. This leads to two key questions. The first is, how do we prepare students to thrive in a VUCA environment? The second is how can we “change paradigms” in education by exploiting technology.



References:

- [1] Coming To An Office Near You, Economist, January 2014

- [2] Smarter Than You Think, Clive Thompson, Penguin, Sept 2013

- [3] Smarter Than You Think, Clive Thompson, Penguin, Sept 2013

- [4] Plato (Phaedrus, 274-5, C.J. Rowe translation)



Want to know more? Read the complete paper “Amplifying Innovation, Creativity and Intelligence with Technology” at clwb.org/vision-paper, and find out more about Mike Lloyd and the CLWB team at clwb.org.

Mike Lloyd and CLWB are partnering with Pearson Academy to deliver professional development for Australian educators.

To find out more and register your interest in upcoming workshops

Visit the website www.pearsonacademy.com.au

Or email info@pearsonacademy.com.au

Jared Cooney— Horvath, Educational Neuroscientist

About Jared Cooney Horvath
(PhD, MEd)

Jared is an expert in the field of Educational Neuroscience with a focus on translating neuroscientific principles to enhance teaching and learning practices within the classroom. Jared has conducted research and lectured at Harvard University, Harvard Medical School, the University of Southern California and the University of Melbourne and has taught at schools around the United States and Australia. Currently, Jared is undertaking research in collaboration with the Science of Learning Research Centre at the Melbourne Graduate School of Education and serves as co-president of The Education Neuroscience Initiative and The Science of Learning Group.

CAN YOU TELL US ABOUT YOUR AREA OF EXPERTISE AND YOUR CURRENT ROLE?

I'm an educational neuroscientist at the University of Melbourne. My crossroads of interest are where the brain, education and behaviour collide. My area of expertise lies in where we can use knowledge about the brain and psychology to help improve teaching and learning practice.

WHAT HAS KEPT YOU MOTIVATED AND EXCITED ABOUT THAT WORK SINCE YOU DECIDED TO DELVE INTO LEARNING AND PSYCHOLOGY?

Every day, something new comes out that shifts what we thought we understood, to the point where the brain I'm studying today is totally different to the brain I started studying eight years ago, and it will be totally different to the brain I'm talking about in eight more years. There's just no chance to ever get bored with it.



"MY CROSSROADS OF INTEREST ARE WHERE THE BRAIN, EDUCATION AND BEHAVIOUR COLLIDE."



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“IMPROVING ONE’S TEACHING IS A PERSONAL THING.”

WHAT IS A GOOD WAY FOR EDUCATORS TO TAP INTO THIS NEW FRAMEWORK TO IMPROVE TEACHING AND LEARNING?

When considering how to use the brain in your classroom, recognising that it is a conceptual thing as opposed to a practical thing is the first step. Once you recognise that the brain is just an adaptive system, it will adapt to whatever you want it to do.

Improving one’s teaching is a personal thing. It’s less about changing practice, and more about expanding on people’s understanding of their practice and why they’re doing it.

WHEN THERE IS A CHILD WHO NEEDS TO BE IN AN ACCELERATED LEARNING ENVIRONMENT, IS THAT STILL A VALID LINE OF THINKING IN OUR SCHOOLS?

Gifted students might show aptitude in things that we consider important in schools, but all it means is that their system has adapted really well to the way we run schools. So it becomes an issue of changing the system to either allow for adaptive styles to become prominent, or to help those who haven’t adapted find an approach so they can adapt better. The good news is that even when you’re locked into a certain behavioural set, you can change that at any time.

There are two choices, change the system or change the individuals, and both seem to work. Intelligence and genius are just words we use, but they’re not real things.

THE THEME OF THE 2016 LEARNING AND TEACHING CONFERENCE IS ‘EDUCATING THE WHOLE CHILD.’ WHAT DOES THAT PHRASE MEAN TO YOU?

I think of not just strengths, weaknesses and beliefs, but also of the entire potentiality of a human being. So educating the whole child means the basics, but also what it means to be a citizen in this world.

In addition, I think there’s been a big push in education now to meet students where they’re at and allow them to chase their own dreams, but when you’re educating the whole child, you also have to push past those desires. That’s where educating the whole child comes in. Recognise that just because a child is one way now, doesn’t mean that that’s what they’ll be in the next 30 years.

WHAT CAN TEACHERS AND PRINCIPALS DO THEMSELVES TO INCREASE THEIR KNOWLEDGE AND ADAPTIVITY AROUND EDUCATION OF WHOLE CHILD?

Educators and policy makers first need to question, is everything deterministic or is it a malleable system? Your answer will then either free up, or constrict everything you do after that. If you start to recognise that the teaching philosophy that we were taught 30 years ago doesn’t seem to be matching the current research findings, then that opens a door to change.

“I’M LOOKING FORWARD TO PRESENTING AT LEARNING AND TEACHING CONFERENCE 2016 BECAUSE...”

It’s an opportunity to sit down with a bunch of teachers, policy makers who care about this profession and ask the big questions. If our primary philosophy says this, then that is naturally going to dictate what we do in our classroom. Nail this, and that will answer questions over here. So that’s why I’m excited about it.



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“INTELLIGENCE AND GENIUS ARE JUST WORDS WE USE, BUT THEY’RE NOT REAL THINGS.”



Jared Cooney-Horvath will be presenting at the 2016 Learning and Teaching Conference in Melbourne from the 16-18 November.

Find you more at

www.pearsonacademy.com.au/LTCON.



Science of Learning Showcase

The Science of Learning is about the merging of three disciplines: psychology, neuroscience and pedagogy. The Science of Learning LinkedIn Group is a professional learning network for educators, researchers, and psychologists, with an interest in learning, and the science relating to learning.

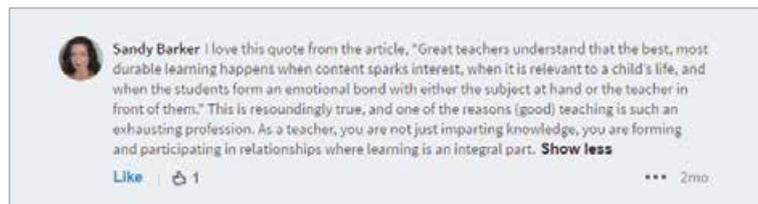
The group's foundation members were delegates of the 2015 MindBrain Conference, who wanted to continue to discuss the application of science in the field of education. Members regularly share insights that join the science of psychology with the practicalities of teaching, and like-minded professionals are invited to visit www.linkedin.com/groups/6964496 and request to join.

The group has a diverse range of participants, with roles including marketing, education, neuroscience, and psychology. Topics for discussion in the group are just as diverse as their roles. The Science of Learning LinkedIn Group covers ground from principles of neuroplasticity, the impact of emotion, attention and working memory, and modelling brain function. They also discuss long term memory formation, the growth mindset, metacognition and executive functions.

Recently, an article posted in the group, titled 'How Do We Improve Our Working Memory?'¹ outlined several practical ways to improve working memory such as training the brain, brain stimulation, and cognition improvement. The article goes on to explain that while there is not just one ideal way to improve working memory, these selected methods have shown promising results.

Working memory is 'the ability to recall as well as process information.' As a type of memory that plays an essential role, this research shows the long term benefits of boosting working memory has the potential to greatly improve our lives.

Another interesting topic on learning explores how emotion is essential to learning, and explains that in order 'To Help Students Learn, Engage The Emotions'.² It follows the story of how teacher-turned neuroscientist Dr. Immordino-Yang handled some potentially sticky racial tension in her classroom, and turned this into a way to engage her young students. Her students were able to engage with, learn, and process a topic they otherwise would have dismissed, because they developed an emotional connection with the concept of the content.





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“THE SCIENCE OF LEARNING LINKEDIN GROUP COVERS GROUND RANGING FROM PRINCIPLES OF NEUROPLASTICITY, THE IMPACT OF EMOTION, ATTENTION AND WORKING MEMORY AND MODELLING BRAIN FUNCTION.”

As Dr. Immordino-Yang explained in the article, “It is literally neurobiologically impossible to think deeply about things that you don’t care about.” While emotion is often underestimated or misunderstood as a trend, it plays a crucial role in developing one’s learning.

Project-Based Learning (PBL) has also been raised as a topic in recent months, and one of the most interesting articles posted discusses ‘Why Project-Based Learning Hasn’t Gone Mainstream, and What We Can Do About It.’³ As outlined in the article, PBL combines standards based curriculums, with student empowerment and real-world problem solving.

As Ryan Steuer of Magnify Learning says, “through projects, students master skills—critical thinking, creativity, communication, and collaboration—that are hard to teach in traditional classrooms, some project-based schools even report 20% higher standardized test scores than those with conventional classrooms.”

“The truth about PBL is, that once you learn the skills, culture and best practices, you find you are teaching the way you always dreamed you would,” he explains.



The Science of Learning LinkedIn Group is welcoming and is always open to new members. To express your interest, visit www.linkedin.com/groups/6964496 and request to join.

[1] How Do We Improve Our Working Memory?
www.linkedin.com/groups/6964496/6964496-6166467867425386498
brainblogger.com/2016/07/04/how-do-we-improve-our-working-memory

[2] To Help Students Learn, Engage The Emotions
www.linkedin.com/groups/6964496/6964496-6148391673207480322
nytimes.com/blogs/well/2016/05/04/to-help-students-learn-engage-the-emotions

[3] Why Project-Based Learning Hasn’t Gone Mainstream (And What We Can Do About It)
www.linkedin.com/groups/6964496/6964496-6139240542577385472
www.edsurge.com/news/2016-04-23-why-project-based-learning-hasn-t-gone-mainstream-and-what-we-can-do-about-it



Australians on education

Earlier this year, Pearson asked more than a thousand Australian educators, administrators, learners and parents about their views on topics affecting the field of education. Similar research has been conducted around the world, including in the United Kingdom, the United States, Canada, Brazil, China, India and South Africa.

The responses provide a snapshot of Australian attitudes to education - but there is so much more to be learned. Here are some of the most striking results from this research.

Education is important to Australians

Australians rightly recognise that education is one of the foundation stones on which society is built. When asked "Which of these issues, if any, are you most concerned about in Australia today?" **43%** of respondents chose education, above employment, healthcare or the economy. Perhaps unsurprising, given that the people surveyed are all connected to education in some way, however, respondents from the USA, UK, Canada and Italy averaged only **30%**.

EDUCATION

43% of respondents chose education



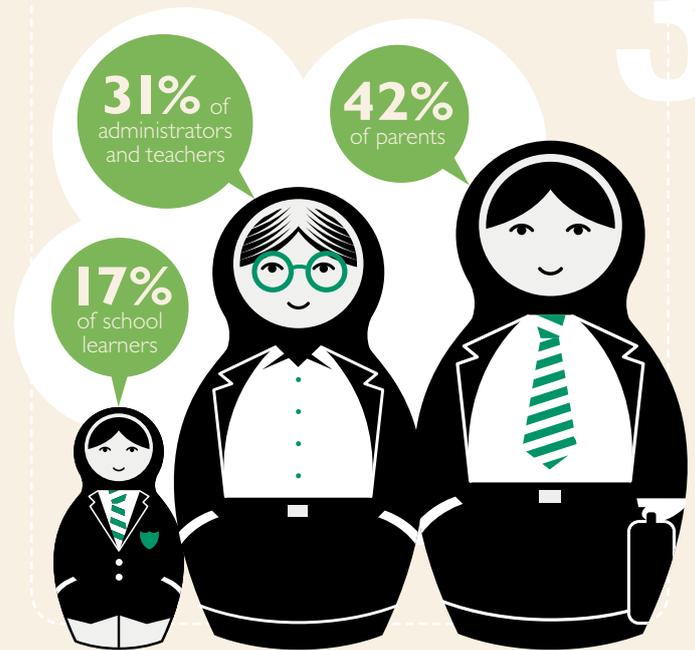
Australians are happy with our education system

Education rates as one of our top concerns - but we're pretty happy with the education system we've got. More than two thirds of respondents (**69%**) are satisfied with Australia's education system. The UK is a little less (**65%**) and, on average, less than half (**48%**) of respondents globally were happy with the education system in their country.



Parents are the most concerned about employability

It's to be expected that parents would show the greatest interest in employability, as they look ahead to their child's future. **42%** of parents are "very concerned" about employability in Australia, followed by administrators and teachers, both at **31%**. School learners aren't looking quite that far ahead, with only **17%** "very concerned".



Employability can be improved with careers advice

45% for better careers advice



When asked what the top priority should be for improving employability, **45%** of respondents asked for better careers advice and training in schools and universities.

Other suggestions included better relationships between education institutions and employers (**37%**) and greater accessibility to higher education (**32%**). Policy makers take note!

What do these insights mean to you? Do these answers represent your point of view, or do you disagree? Visit www.pearson.com.au/community/portal to add your feedback and join the conversation.



PRODUCT SPOTLIGHT

Pearson Lightbook

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- **Progress Tracker** is a dashboard for students and teachers to review progress on all auto-correcting exercises, with the ability for teachers to give written or verbal feedback.

FEATURES FOR STUDENTS AND TEACHERS IN MATHEMATICS



- **Teacher resources**
CAS Glossary, teaching programs, curriculum grids and bank of questions with fully worked solutions for each chapter to enable construction of assessment tasks.
- **Exam question chapter included for Year 12**
This chapter contains questions from past state Year 12 mathematics exams, organised according to the chapter topics.

FEATURES FOR STUDENTS AND TEACHERS IN SCIENCE



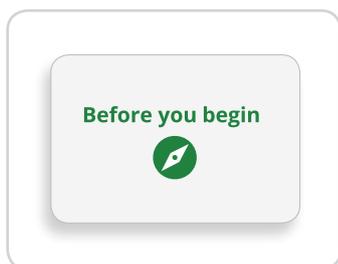
- **Teacher resources**
Practical activities, demonstrations, exercises, evaluations and analysis investigations, risk assessments, safety notes, technician checklist and recipes, curriculum grid, teaching program, practice exams, area of study tests /reviews and chapter tests (Physics only).
- **Student resources**
Maths Skills chapter, SPARKlabs (WA only), Formulae and Data Booklet and reference material.



PRODUCT LIST

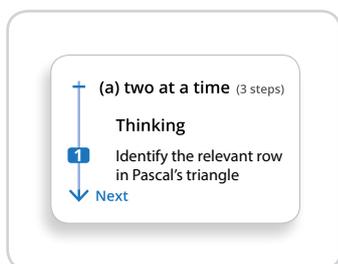
TITLE	YEAR 11	YEAR 12
WESTERN AUSTRALIA		
Pearson Lightbook Mathematics Applications	978 4886 0373 0	978 4886 0374 7
Pearson Lightbook Mathematics Methods	978 4886 0375 4	978 4886 0376 1
Pearson Lightbook Chemistry	978 4886 0379 2	978 4886 0380 8
Pearson Lightbook Physics	978 4886 0381 5	978 4886 0382 2
VICTORIA – Science		
Pearson Lightbook Chemistry (Late 2016)	978 4886 9094 5	978 4886 9095 2
Pearson Lightbook Physics (Late 2016)	978 4886 9096 9	978 4886 9097 6

DIGITAL FEATURES



BEFORE YOU BEGIN

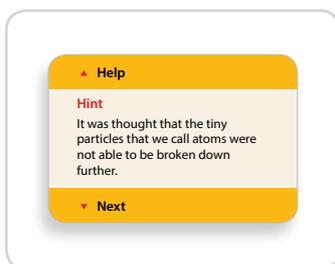
Before you begin sections at the start of each chapter establish students' readiness to tackle the upcoming chapter. Students and teachers can see what needs further revision.



WORKED EXAMPLES

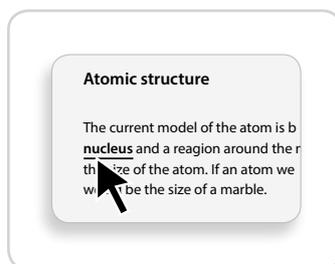
Worked examples can be revealed step-by-step, or all at once to suit the individual student's learning style.

Every worked example has a corresponding try yourself worked example using a similar question for additional practice.



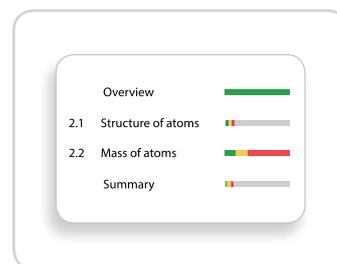
HINTS

Hints consider what a teacher might say to a student in need of assistance. This prevents students disengaging at the point where they struggle.



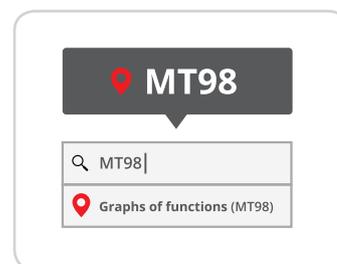
GLOSSARY WORDS

Rollover **glossary words** in the chapter to see the definition without leaving the current section.



PROGRESS TRACKER

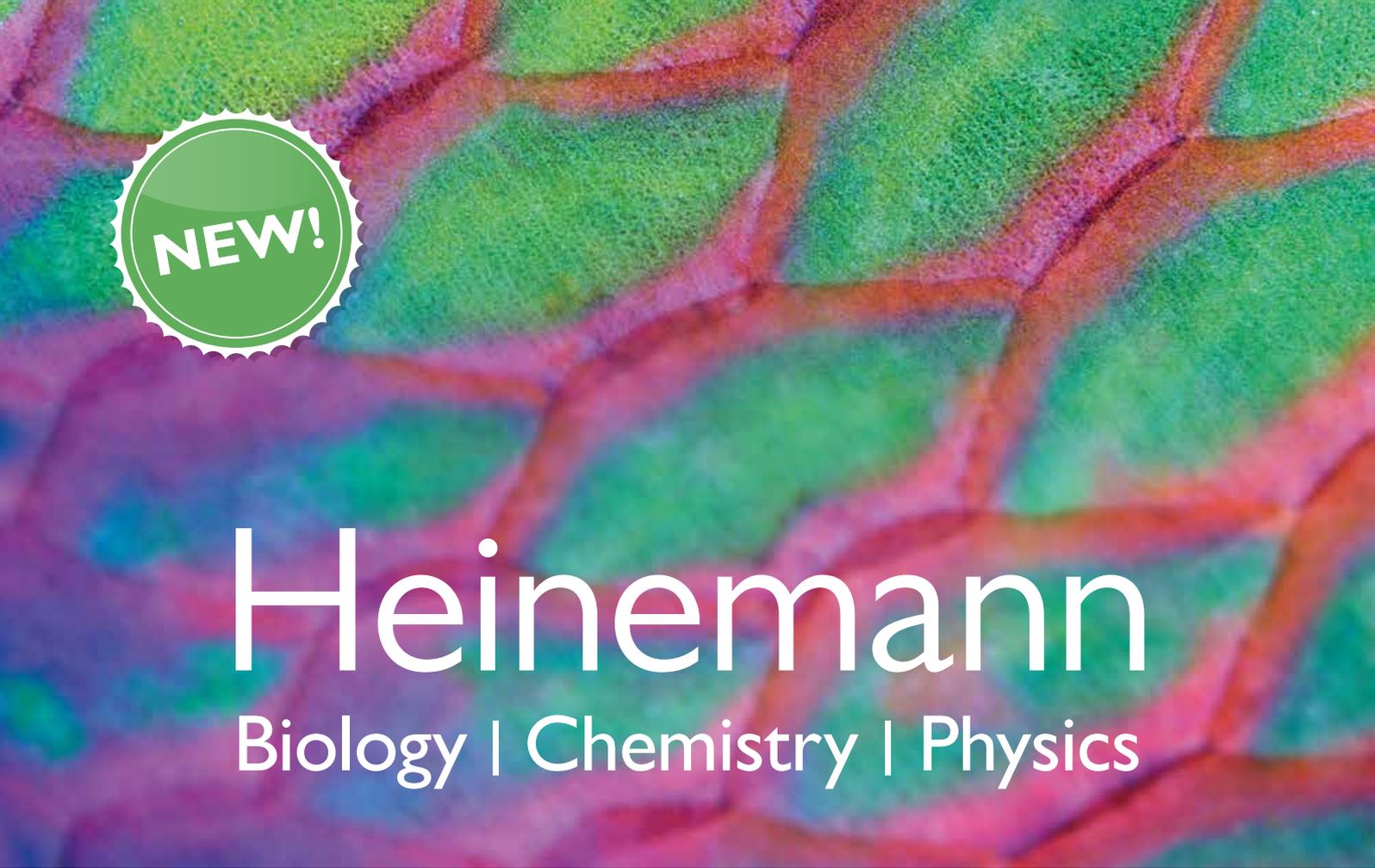
The **Progress Tracker** gives students a digital record of their progress and achievement on questions and exercises, tracked and stored for themselves and the teacher to access.



JUMP CODES

Jump codes – refer students to 'jump codes' instead of page numbers – jump instantly to a piece of content anywhere in Lightbook with an easy to find jump code, or assign it to your class to access for homework or start of class.





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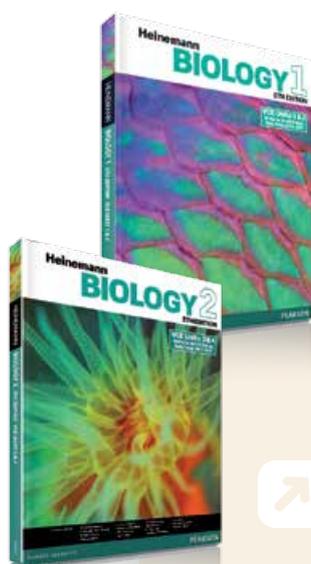
We've completely revised Heinemann Biology, Heinemann Chemistry and Heinemann Physics to be fully aligned with the 2016–2021 VCE Science Study Designs.

The content provides an exact match to the study designs and the layout and design incorporates many features that assist student learning. The authors have updated the student books with the very latest developments and applications of chemistry, biology and physics, presented in an Australian context.

ABOUT THE NEW EDITIONS:

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- Accompanying Workbook available for **Heinemann Biology** and **Heinemann Chemistry**.

HEINEMANN BIOLOGY FIFTH EDITION



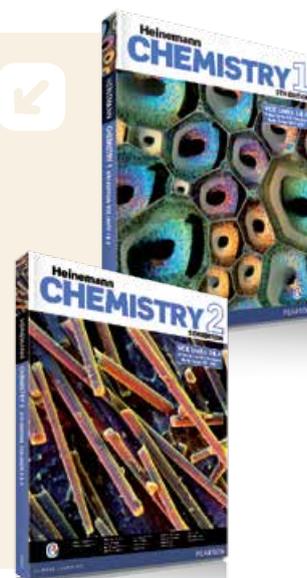
YEAR LEVEL	ISBN	LIST PRICE (Inc.GST)
Heinemann Biology Fifth Edition Student Book (Includes Pearson eBook 3.0)		
Book 1	978 4886 1122 3	\$78.95
Book 2 (December 2016)	978 4886 1123 0	\$78.95
Pearson eBook 3.0 Heinemann Biology Fifth Edition		
Book 1	978 4886 9150 8	\$49.95
Book 2 (December 2016)	978 4886 9151 5	\$49.95
Heinemann Biology Workbook – New editions		
Book 1	978 4886 1200 8	\$32.95
Book 2	978 4886 1201 5	\$32.95

- Teacher resources are now available conveniently online on Pearson Places via the Teacher ProductLink.
- All prices are inclusive of GST. • Prices current from 01/05/2016 to 30/04/2017. Prices listed are the publisher's list prices only and are subject to change without notice.

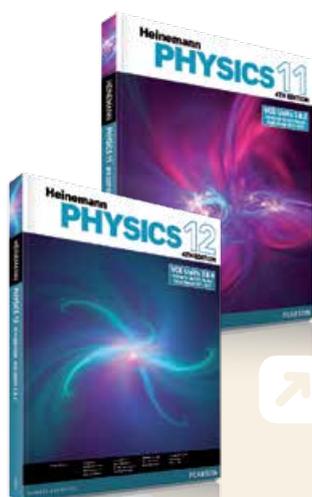
HEINEMANN CHEMISTRY FIFTH EDITION

YEAR LEVEL	ISBN	LIST PRICE (Inc.GST)
Heinemann Chemistry Fifth Edition Student Book (Includes Pearson eBook 3.0)		
Book 1	978 4886 1124 7	\$78.95
Book 2 (December 2016)	978 4886 1125 4	\$78.95
Pearson eBook 3.0 Heinemann Chemistry Fifth Edition		
Book 1	978 4886 9152 2	\$49.95
Book 2 (December 2016)	978 4886 9153 9	\$49.95
Heinemann Chemistry Workbook – New editions		
Book 1	978 4886 1196 4	\$32.95
Book 2 (November 2016)	978 4886 1199 5	\$32.95

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HEINEMANN PHYSICS FOURTH EDITION



YEAR LEVEL	ISBN	LIST PRICE (Inc.GST)
Heinemann Physics Fourth Edition Student Book (Includes Pearson eBook 3.0)		
Book 11	978 4886 1126 1	\$78.95
Book 12 (December 2016)	978 4886 1127 8	\$78.95
Pearson eBook 3.0 Heinemann Physics Fourth Edition		
Book 11	978 4886 9154 6	\$49.95
Book 12 (December 2016)	978 4886 9155 3	\$49.95

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Pearson Science Second Edition

NEW!

A trusted, market-leading series designed to save you time and support learners of all abilities

NATIONAL PUB DATE 2016–2017

This market-leading series has been enhanced to improve accessibility, integrate cutting-edge science practice with STEM investigations and focus on Australian and future science directions. The new edition includes student investigations and inquiry activities, STEM-focussed career profiles and exposure to innovative scientific developments with examples that include contributions of Australian and female scientists.

Clearly aligned to the latest Australian Curriculum: Science, and the Victorian Curriculum: Science, the series encourages students to identify the relationship between science and everyday life. In addition to the core curriculum content, we've included a 'step-up' program to help successfully launch students into Senior Sciences.



PRICELIST

SB • Student Book **AB** • Activity Book **EB** • Pearson eBook 3.0 **LBS** • Lightbook Starter

TITLE	YEAR 7	YEAR 8	YEAR 9	YEAR 10	PRICE
Pearson eBook 3.0 Access Card	978 4886 9774 6 (January 2017)	978 4886 9775 3 (February 2017)	978 4886 9776 0 (February 2017)	978 4886 9777 7 (February 2017)	\$29.95
Student Book with eBook	978 4886 1501 6 (November 2016)	978 4886 1502 3 (December 2016)	978 4886 1503 0 (November 2016)	978 4886 1504 7 (December 2016)	\$49.95
Activity Book	978 4886 1505 4	978 4886 1506 1	978 4886 1507 8	978 4886 1508 5 (December 2016)	\$11.95
LBS and EB eBundle	978 4886 9903 0 (January 2017)	978 4886 9933 7 (February 2017)	978 4886 9942 9 (From February 2017)*	978 4886 9948 1 (From February 2017)*	\$39.95
EB, SB and AB Combo Pack	978 4886 9872 9 (November 2016)	978 4886 9874 3 (December 2016)	978 4886 9876 7 (December 2016)	978 4886 9878 1 (December 2016)	\$54.95
LBS, EB and SB Combo Pack	978 4886 9900 9 (November 2016)	978 4886 9930 6 (December 2016)	978 4886 9939 9 (December 2016)	978 4886 9937 5 (December 2016)	\$59.95
LBS, EB, SB and AB Combo Pack	978 4886 9901 6 (November 2016)	978 4886 9931 3 (December 2016)	978 4886 9940 5 (December 2016)	978 4886 9946 7 (December 2016)	\$64.95
Teacher Companion	978 4886 1513 9 (February 2017)	978 4886 1514 6 (March 2017)	978 4886 1515 3 (March 2017)	978 4886 1516 0 (April 2017)	\$120.00

* Content updated fortnightly from initial release date. Please speak to you Pearson Sales Consultant to learn more about the release schedule.

• All prices are inclusive of GST.

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STUDENT BOOK

The second edition **Student Book** provides updated and refreshed content based on latest pedagogical best practice and research. New ground is broken with an integrated approach to differentiation, opportunities to engage with STEM, and a clear pathway that equips students with a range of learning opportunities, sound scientific literacy and vital skills in problem solving.



PEARSON EBOOK 3.0

Pearson eBook 3.0 takes your Student Book online or offline for any device*, while retaining the integrity of the printed page. With access to linked interactive activities when they're online, your students will be engaged at school and at home.

* Available for PC, Mac, iPad and Android tablets.



SERIES COMPONENTS



ACTIVITY BOOK

Updated with explicit differentiation and improved learner accessibility, the **Activity Book** provides a wide variety of activities to reinforce, extend and enrich learning initiated through the **Student Book**.

LIGHTBOOK STARTER

Lightbook Starter is an innovative digital resource developed to help students learn key scientific concepts, assess understanding and track progress. It assesses the readiness of the learner prior to tackling chapters, as well as their understanding through post-chapter assessment and auto-correcting questions linked to the progress tracker dashboard.



TEACHER COMPANION

A further improved **Teacher Companion** places the support of experts alongside every Pearson Science 2e teacher, featuring wrap-around teaching and learning strategies and support from Literacy Consultant: Dr Trish Weekes, Differentiation Consultant: Anna Bennett and laboratory technician: Penny Lee.

PRODUCTLINK

Registered teachers can access additional resources for **Pearson Science 2e** through the Teacher **ProductLink** for Science on the Pearson Places website.

DIGITAL PRODUCT PARTNER

You can access **Pearson Science 2e** through a number of Pearson's Digital Product Partners. Please contact Customer Care, or ask your Education Sales Consultant to confirm availability.

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PRODUCT SPOTLIGHT



Pearson Science New South Wales

The most comprehensive and accessible science series for Years 7–10 in NSW

NSW PUB DATE 2013–2014

Pearson Science New South Wales has been written using extensive research and the development of an approach that aims to make learning accessible.

The series is designed using an inquiry approach to science learning. It contains a mixture of practical inquiry based experiences, real-life examples, practical activities and student-designed investigations, which balance the content and allow students to develop concepts and contextualisation.

Questions have been developed to help deliver the best possible outcomes for students. Bloom's verbs are used in all questions, helping students to understand the scope of the question they are being asked. Thinking Scientifically questions test students' science and interpretive skills.

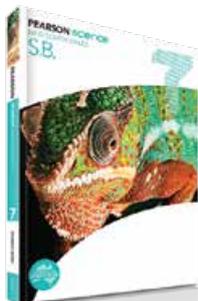


PRICELIST

SB • Student Book **AB** • Activity Book **EB** • Pearson eBook 3.0

TITLE	YEAR 7	YEAR 8	YEAR 9	YEAR 10	PRICE
Student Book	978 4425 6548 7	978 4425 6561 6	978 4425 6566 1	978 4425 6571 5	\$44.95
Pearson eBook 3.0 Access Card	978 4860 9900 9	978 4860 9901 6	978 4860 9093 8	978 4860 9101 0	\$25.00
Activity Book	978 4425 6557 9	978 4425 6562 3	978 4425 6567 8	978 4425 6572 2	\$17.95
EAL/D Activity Book	978 4425 6559 3	978 4425 6565 4	978 4425 6570 8	978 4425 6574 6	\$17.95
Teacher Companion	978 4425 6558 6	978 4425 6563 0	978 4425 6568 5	978 4425 6575 3	\$190.00
EB and SB Combo Pack	978 4860 9174 4	978 4860 9175 1	978 4860 9176 8	978 4860 9177 5	\$49.95
EB, SB and AB Combo Pack	978 4860 9085 3	978 4860 9091 4	978 4860 9099 0	978 4860 9107 2	\$59.95
EB, SB and EAL/D Combo Pack	978 4860 9086 0	978 4860 9092 1	978 4860 9100 3	978 4860 9108 9	\$59.95
SB and AB Value Pack	978 4860 9081 5	978 4860 9087 7	978 4860 9095 2	978 4860 9103 4	\$54.95
SB and EAL/D AB Value Pack	978 4860 9082 2	978 4860 9088 4	978 4860 9096 9	978 4860 9104 1	\$54.95
TITLE	STAGE 4		STAGE 5		PRICE
EB and SB Stage Combo Packs	978 4886 0277 1		978 4886 0278 8		\$89.95

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STUDENT BOOKS

The **Student Books** have been developed with scientific literacy and accessibility at their core, specifically for the NSW syllabus for the Australian Curriculum: Science. Syllabus outcomes are clearly listed with icons to make it clear how the content fits the curriculum.



PEARSON EBOOK 3.0

Pearson eBook 3.0 takes your Student Book online or offline for any device*, while retaining the integrity of the printed page. With access to linked interactive activities when they're online, your students will be engaged at school and at home.

* Available for PC, Mac, iPad and Android tablets.

EAL/D ACTIVITY BOOKS

The **EAL/D** (English as an Additional Language or Dialect) **Activity Books** include language builder support for each chapter; simplified questions, key terms defined using text and pictorial explanations, as well as scaffolds and hints.

SERIES COMPONENTS



ACTIVITY BOOKS

The write-in **Activity Books** reinforce, extend and enrich learning initiated through the **Student Books**. A variety of activities, learning styles and questions are used to reinforce learning outcomes. You'll also find a literacy review for each chapter to help students learn key terms.



TEACHER COMPANIONS

Teacher Companions will save you time and help cater for a diversity of learners, with hundreds of teaching and learning strategies. Each book includes the full **Student Book** pages with fully worked solutions for both the **Student Book** and **Activity Book** questions. The **Teacher Companion** pulls the whole series together through resource boxes and explanations, clear references to how each chapter is aligned to the NSW Syllabus and suggested learning strategies to provide easy lesson preparation and implementation.

PRODUCTLINK

Registered teachers can access additional resources for **Pearson Science New South Wales** through the **Teacher ProductLink** for Science on the Pearson Places website.

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PRODUCT SPOTLIGHT



Pearson Skills: Science and Inquiry

Written to address the Science Inquiry Skills of the Australian Curriculum

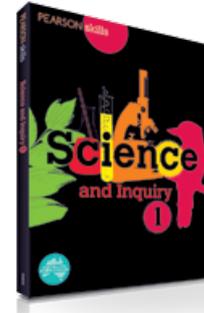
NATIONAL PUB DATE 2010

Science inspires curiosity and encourages us to ask questions and seek answers about our world. To be able to investigate, research, answer questions and communicate findings as scientists, students need a diverse set of skills.

Pearson Skills: Science and Inquiry supports students in developing these essential Science and inquiry skills.

Designed to complement and enhance any Science course, these student-friendly texts are suitable for independent use and will engage and challenge students from a wide range of backgrounds and abilities, with little or no teacher support. Skills such as data collection, data analysis and presenting results will be developed, along with scientific literacy and communications skills.

SERIES COMPONENTS



STUDENT BOOKS

The **Student Book** consists of eight chapters and includes skill outcome summaries at the start of each chapter, each skill packaged into an achievable one-lesson page spread, supported by a literacy focus, a glossary for each chapter, and solutions for checkpoint and skill review questions.



PEARSON READER 1.0

Pearson Reader 1.0 gives you the complete student book content online with linked interactive teacher and student resources. Engage students online and offline with the same beautifully designed full colour layouts as the student book, with the addition of interactive content.



PRICELIST

SB • Student Book **PR** • Pearson Reader 1.0

TITLE	BOOK 1	BOOK 2	PRICE
Student Book	978 4425 2786 7	978 4425 2946 5	\$27.95
Pearson Reader 1.0 Access Card	978 4425 7947 7	978 4425 7948 4	\$19.95
PR and SB Combo Pack	978 4425 8066 4	978 4425 8067 1	\$32.95

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Be the best you can be! Learn about your natural strengths, but also your growth opportunities. Gain an insight into your motivations, de-motivations, leadership style, and much more.



Team Development and Engagement

Help your teams learn about each other's personality preferences in order to increase communication, collaboration and performance. Identify and eliminate potential sources of conflict to create high performing teams.



Leadership Development

How can you become a versatile leader? Learn how you can better manage the different personalities in your team and how to tailor your communication to the team members to get the most buy-in.



Critical Thinking measurement and training

Critical Thinking has been identified as the No.1 skill in 21st century organisations. Select and train the best thinkers to get ahead in your organisation. Identify the next set of leaders in your organisation and set yourselves on the path to high performance.



Career Guidance

Online tools available to assist students aged 16+ to identify which career path would suit them based on skills, interests and also personality.



Emotional Intelligence

Identified as one of the biggest predictors of performance in the workplace. Learn where individuals and team currently sit on the EI spectrum and provide them with strategies to improve their levels of EI.

Register online for free and browse our comprehensive range of tests
www.talentlens.com.au

Or call 1800 570 308 or email anisa.zulfiqar@pearson.com to request
a suggested range of assessments and team development workshops.



Pearson Mathematics Second Edition

Teach the latest Australian Curriculum: Mathematics with a series you can trust

NATIONAL PUB DATE 2016–2017

Pearson Mathematics Second Edition retains all the much loved features of its predecessor, with improved, refreshed and updated content and a brand new digital offering to simplify formative assessment and progress tracking. Refreshed content has been developed specially to improve learner engagement and outcomes.

Feedback and extensive collaboration with users of Pearson Mathematics First Edition was taken into consideration to help shape the new series.

The new edition is based on content informed by the latest research, including rich tasks and STEM activities. It provides targeted support to help learners creatively solve problems and apply systematic reasoning.

The new edition has also been clearly aligned to the latest Australian Curriculum: Mathematics, as well as to the 2017 Victorian Curriculum: Mathematics.



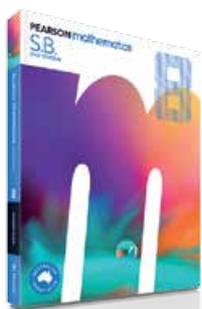
PRICELIST

SB • Student Book **EB** • eBook 3.0 **HP** • Homework Program **LBS** • Lightbook Starter

TITLE	YEAR 7	YEAR 8	YEAR 9	YEAR 10	PRICE
Pearson eBook 3.0 Access Card (January 2017)	978 4886 9766	978 4886 9767 8	978 4886 9768 5	978 4886 9769 2	\$29.95
Student Book with eBook (December 2016)	978 4886 1398 2	978 4886 1402 6	978 4886 1406 4	978 4886 1410	\$49.95
Homework Program (December 2016)	978 4886 1399 9	978 4886 1403 3	978 4886 1407	978 4886 141 8	\$11.95
LBS and EB eBundle (December 2016)	978 4886 9895 8	978 4886 991 5	978 4886 9917 7	978 4886 9924 5	\$39.95
EB, SB and HP Combo Pack (December 2016)	978 4886 9880 4	978 4886 988 1	978 4886 9882 8	978 4886 9883 5	\$54.95
LBS, EB and SB Combo Pack (December 2016)	978 4886 9893 4	978 4886 9909 2	978 4886 9916 0	978 4886 9922	\$59.95
LBS, EB, SB and HP Combo Pack (December 2016)	978 4886 9894	978 4886 9910 8	978 4886 9907 8	978 4886 9923 8	\$64.95
Teacher Companion (January 2017)	978 4886 1400 2	978 4886 1404 0	978 4886 1408 8	978 4886 1412 5	\$120.00

• All prices are inclusive of GST.

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STUDENT BOOK

The **Student Book** offers updated questions, activities, design and full coverage of the Australian Curriculum: Mathematics as well as the 2017 Victorian Curriculum.

It caters for students of all abilities, with improved differentiation of all exercise questions and additional foundation-level questions in all exercises.

Student Books for Year 7 and Year 8 come with a reusable mini whiteboard to help encourage active participation from learners.



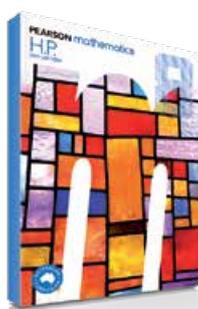
PEARSON EBOOK 3.0

Pearson eBook 3.0 takes your Student Book online or offline for any device*, while retaining the integrity of the printed page. With access to linked interactive activities when they're online, your students will be engaged at school and at home.

* Available for PC, Mac, iPad and Android tablets.



SERIES COMPONENTS



HOMEWORK PROGRAM

The **Homework Program** provides a collection of tear-out worksheets which allow students to practice and revise mathematical concepts. It contains over 120 double-side worksheets, including practice sheets aligned to the Student Book chapter sections and skills sheets to give students an opportunity to revise general mathematics skills. Answers to the Homework Program can be found in the Teacher Resources online.

LIGHTBOOK STARTER

Lightbook Starter has been developed to help students 'check in' on their understanding before they begin and as they move through each chapter. Sophisticated auto-correcting questions track progress and allow early identification of areas where students need support.



TEACHER COMPANION

The **Teacher Companion** makes lesson preparation and implementation easy by combining full Student Book pages with a wealth of teacher support, to help you meet the demands of the Australian Curriculum: Mathematics as well as the 2017 Victorian Curriculum.

PRODUCTLINK

Registered teachers can access additional resources for **Pearson Mathematics 2nd edition** through the Teacher **ProductLink** for Mathematics on the Pearson Places website.

DIGITAL PRODUCT PARTNER

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PRODUCT SPOTLIGHT



Pearson Mathematics New South Wales

Designed to provide a differentiated pathway for every student

NSW PUB DATE 2013–2014

Pearson Mathematics New South Wales provides you with a 'nuts and bolts', no nonsense Mathematics series that delivers differentiated pathways for students of all abilities, at an affordable price. As with the national edition, we've had the opportunity to build it from the ground up specifically for the Australian

Curriculum, and we've developed it for the NSW syllabus. We found it important to develop our resources from scratch for the Australian Curriculum to ensure we could include the latest research about how students learn Mathematics best.



PRICELIST

SB • Student Book **EB** • eBook 3.0 **PA** • Pearson Active

TITLE	YEAR 7	YEAR 8	YEAR 9	YEAR 10	PRICE
Student Book	978 4860 1093 6	978 4860 1119 3	978 4860 1123 0	978 4860 1127 8	\$44.95
Pearson eBook 3.0 Access Card	978 4860 9057 0	978 4860 9058 7	978 4860 9059 4	978 4860 9060 0	\$25.00
Pearson Active Access Card	978 4860 9053 2	978 4860 9054 9	978 4860 9055 6	978 4860 9056 3	\$9.95
EB and SB Combo Pack	978 4860 9073 0	978 4860 9074 7	978 4860 9075 4	978 4860 9076 1	\$49.95

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- Prices current from 01/05/2016 to 30/04/2017. Prices listed are the publisher's list prices only and are subject to change without notice.



STUDENT BOOKS



The **Student Book** provides an easy-to-use 'nuts and bolts' book at each year level, covering the full range of Stages 5.1, 5.2 and 5.3 in Years 9 and 10, with content from all three Stages explicitly labelled, as well as presenting three differentiated pathways through every exercise: Foundation, Standard and Advanced.



PEARSON ACTIVE



Transform the previously time consuming and offline workflow of assigning students homework, collecting it, marking corrections, and collating the results. **Pearson Active** provides you with an online homework program with embedded, tracked assessment questions and with the click of a button students can complete activities and get immediate feedback.

SERIES COMPONENTS



PEARSON EBOOK 3.0



Pearson eBook 3.0 takes your Student Book online or offline for any device*, while retaining the integrity of the printed page. You'll find hundreds of interactive activities and videos including eWorked Examples with explanations that students can watch and listen to, plus Maths4Reals, Investigations, Recall Worksheets and Bridging Worksheets to support and scaffold Year 7 and 8 students needing extra support. The teacher version of Pearson eBook 3.0 is available to you when you adopt the series. You'll find editable chapter tests, fully worked solutions to questions, syllabus correlation grids and teaching programs.

** Available for PC, Mac, iPad and Android tablets.*

PRODUCTLINK

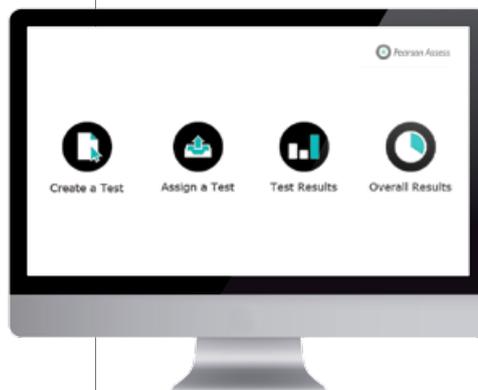


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PRODUCT SPOTLIGHT



Australian Signpost Mathematics New South Wales

Updated for the NSW Board of Studies Syllabus for the Australian Curriculum

NSW PUB DATE 2013–2014

The market-leading 'Signpost Maths' has been recreated for the New South Wales Syllabus for the Australian Curriculum, improving the series with a greater focus on teacher and digital support.

Improvements in technology, teaching resources and design allow students and teachers to approach the Australian Curriculum with confidence.

Previous users of Signpost Mathematics will be able to rest easy with a familiar and proven approach to Mathematics that helps them easily integrate the new syllabus.

This new series continues the Signpost tradition of expanding students' ability in a broad range of mathematical skills while emphasising problem-solving and working mathematically.



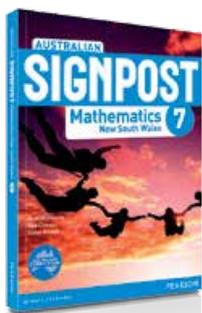
PRICELIST

SB • Student Book **EB** • eBook 3.0 **HP** • Homework Program

TITLE	YEAR 7	YEAR 8	YEAR 9 (5.1–5.2)	YEAR 10 (5.1–5.2)	PRICE
			YEAR 9 (5.1–5.3)	YEAR 10 (5.1–5.3)	
Student Book	978 4425 6543 2	978 4860 0052 4	978 4860 0053	978 4860 0054 8	\$44.95
			978 4860 0531 4	978 4860 0055 5	
Pearson eBook 3.0 Access Card	978 4860 9906	978 4860 9907 8	978 4860 9015 0	978 4860 9025 9	\$25.00
			978 4860 9020 4	978 4860 9030 3	
Homework Program	978 4866 0291 7	978 4860 0294 8	978 4860 0297 9	978 4860 0300 6	\$17.95
			978 4860 0533 8	978 4860 0534 5	
Teacher Companion	978 4860 0290 0	978 4860 0293	978 4860 1254	978 4860 0299 3	\$190.00
			978 4860 0532	978 4860 0535 2	
EB and SB Combo Pack	978 4860 9011 2	978 4860 9014 3	978 4860 9019 8	978 4860 9029 7	\$49.95
			978 4860 9024 2	978 4860 9034	
EB, SB and HP Combo Pack	978 4860 9010 5	978 4860 9013 6	978 4860 9018	978 4860 9028 0	\$59.95
			978 4860 9023 5	978 4860 9033 4	
SB and HP Value Pack	978 4860 9130 0	978 4860 9131 7	978 4860 9132 4	978 4860 9134 8	\$54.95
			978 4860 9133	978 4860 9135 5	

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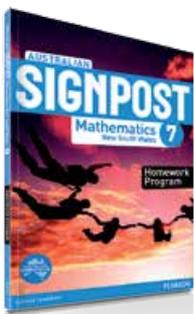


STUDENT BOOKS



The **Student Books** maintain the visual approach loved by teachers and students of the Signpost series in previous years. We've also retained the much loved style and approach using a flexible structure with carefully graded exercises, colour-coded to indicate level of difficulty.

You'll also find diagnostic tests, chapter reviews and cumulative reviews in every chapter.



HOMEWORK PROGRAMS



The **Homework Programs** consist of up to 120 tear-out worksheets, divided into chapters that match and supplement the **Student Book** chapters. They provide further practice and application of key skills.

SERIES COMPONENTS



PEARSON EBOOK 3.0



Pearson eBook 3.0 takes your Student Book online or offline for any device*, while retaining the integrity of the printed page. With access to linked interactive activities when they're online, your students will be engaged at school and at home.

Students and teachers can access interactive Geogebra activities, chapter tests and foundation and challenge worksheets. Designed to engage students, the Pearson eBook 3.0 will consolidate learning and provide opportunities for increased depth of understanding.

** Available for PC, Mac, iPad and Android tablets.*

PRODUCTLINK



Registered teachers can access additional resources for **Australian Signpost Maths New South Wales** through the Teacher **ProductLink** for Maths on the Pearson Places website.

Students can also register to access all the student resources associated with their student book for free.



TEACHER COMPANIONS



The wrap-around **Teacher Companions** feature Student Book pages, with teachers notes and help 'wrapped' around the edges of the page to help you with teaching strategies at every step. Of course, you'll also find all of the answers to Student Book questions as well as lesson starter suggestions and further teaching strategies.

The following sections are included in the **Teacher Companions**: Chapter Focus, Outcomes, Key ideas and Language, Class Activities, Extension, Learning across the curriculum, Technology, and Interesting facts.

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