

# Scientific approach

## Push to attract girls to STEM

ALANAH FROST

GIRLS are pursuing careers in science despite being outnumbered by their male peers.

More than 37,000 women were employed in areas of science, technology, engineering or mathematics (STEM) in November 2020 — making up 42.6 per cent of the state workforce for such occupations.

This is an increase on 2019, where 41.4 per cent of STEM workers were women.

But women and girls are still less likely to complete tertiary education in STEM than their male counterparts, something the science, medical and education communities are trying hard to change.

Liz Baker, a neonatologist and researcher at the Royal Women's Hospital, works with babies who are born premature or sick.

"There's lots of stereotypes about labs and white coats, but what a career in science can actually look like is so much more varied," Dr Baker said. "Research wasn't at the forefront of my career plans when I



Hita Keshav, 15, Caitlyn Lewis, 17, and Emily Dham, 16, in the lab at Monash Science School. Picture: JAKE NOWAKOWSKI

started medicine and it was probably being exposed to that as a junior doctor that inspired me to go down that path."

Dr Baker is taking part in the hospital's virtual Meet A Scientist event, which is being held on Thursday to mark the International Day of Women and Girls in Science, and will be broadcast to more than

4500 Australian school girls.

Caitlyn Lewis, 17, a year 12 student and vice-captain at John Monash Science School in Clayton, will be attending.

"My first dream career was to be an astronaut, so I've always wanted to go into STEM," she said. "I want to try and make the world a better place and by going into science

you learn about how the world works and what needs to be improved."

She said it was daunting that in many areas, particularly engineering, women were still outnumbered, but said it was "important to try and break the stereotypes, and try and spark some curiosity" so women will pursue a career in STEM.

Sue Matthews, chief executive at RWH said: "In Australia, just 20 per cent of girls are interested in a STEM-related career, versus 40 per cent of boys.

"Statistics like this underline the importance of supporting, encouraging and elevating women in science."

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# Current Science Newspaper Articles

**Arthur Campbell Yate**



## Current Science Newspaper Articles:

Science News Letter ,1924      **A Dictionary of Chemistry** Jonathan Law,Richard Rennie,2020-03-19 A Dictionary of Chemistry is a popular and authoritative guide to all aspects of its discipline With over 5 000 entries its broad coverage includes physical chemistry and biochemistry and is heavily informed by the most current research For this eighth edition the Dictionary has been fully revised making it the most up to date reference work of its kind Almost 200 entirely new entries have been added including bioethanol genome molecular spintronics oganesson phosphorylation and reticular chemistry Areas such as analytical chemistry environmental chemistry and organic chemistry have been expanded to reflect recent developments in the field The dictionary s supplementary material has also been enhanced as new diagrams provide readers with useful visual aids and the appendices have been substantially updated All web links have been revised and updated and are easily accessible via the companion website      Excellence Through Equity Alan M. Blankstein,Pedro Noguera,Lorena Kelly,2016-02-26 Excellence Through Equity is an inspiring look at how real world educators are creating schools where all students are able to thrive In these schools educators understand that equity is not about treating all children the same They are deeply committed to ensuring that each student receives what he or she individually needs to develop their full potential and succeed To help educators with what can at times be a difficult and challenging journey Blankstein and Noguera frame the book with five guiding principles of Courageous Leadership Getting to your core Making organizational meaning Ensuring constancy and consistency of purpose Facing the facts and your fears Building sustainable relationships They further emphasize that the practices are grounded in three important areas of research that are too often disregarded 1 child development 2 neuroscience and 3 environmental influences on child development and learning You ll hear from Carol Corbett Burris Michael Fullan Marcus J Newsome Paul Reville Susan Szachowicz and other bold practitioners and visionary thinkers who share compelling and actionable ideas strategies and experiences for closing the achievement gap in your classrooms and school Ensuring that all students receive an education that cultivates their talents and potential is in all our common interest As Andy Hargreaves writes in the coda The opportunity for all Americans is to articulate and believe in an inspiring vision of educational change that is about what the next generation of America and Americans should become not about a target or ranking that the nation should attain From the Foreword by Archbishop Desmond Tutu Letting go of a system of winners and losers in favor of what is proposed in this book is a courageous leap forward that we all must take together Let this bold practical book be a guide and may you travel into this new exciting vista in which every child can succeed      **The Literary News** ,1890      **Science News-letter** ,1946      *General Science Quarterly* ,1928      An Analysis of the Content of Scientifically And/or Technologically-oriented Articles Appearing in a Sample of Capital City Newspapers Roger Lee Wood,1966      **The Literary News** Frederick Leypoldt,1891      *Information Literacy Instruction that Works* Patrick Ragains,2013-06-27 Information literacy and library instruction are at the heart of the academic library s mission But

how do you bring that instruction to an increasingly diverse student body and an increasingly varied spectrum of majors In this updated expanded new second edition featuring more than 75% new content Ragains and 16 other library instructors share their best practices for reaching out to today s unique users Readers will find strategies and techniques for teaching college and university freshmen community college students students with disabilities and those in distance learning programs Alongside sample lesson plans presentations brochures worksheets handouts and evaluation forms Ragains and his contributors offer proven approaches to teaching students in the most popular programs of study including English Literature Art and Art History Film Studies History Psychology Science Agricultural Sciences and Natural Resources Hospitality Business Music Anthropology Engineering Coverage of additional special topics including legal information for non law students government information and patent searching make this a complete guide to information literacy instruction

*Journal of Chemical Education* ,1925 Includes Report of New England Association of Chemistry Teachers and Proceedings of the Pacific Southwest Association of Chemistry Teachers

The Popular Science News and Boston Journal of Chemistry ,1888 4 vols. of magazine articles and pamphlets by A.C. Yate and others, mainly relating to the Near east. Collected by A.C. Yate Arthur Campbell Yate,1902

**Newspaper Press Directory** ,1927 Advertisers guide containing full particulars of every newspaper magazine review and periodical published in the United Kingdom and the British isles the newspaper map of the United Kingdom the continental American Indian and colonial papers and a directory of the class papers and periodicals

The Editor ,1928

**Michigan Education Journal** ,1928 Includes section Moderaor topics

*Artificial Intelligence in STEM Education* Fan Ouyang,Pengcheng Jiao,Bruce M. McLaren,Amir H. Alavi,2022-12-29

Artificial intelligence AI opens new opportunities for STEM education in K 12 higher education and professional education contexts This book summarizes AI in education AIED with a particular focus on the research practice and technological paradigmatic shifts of AIED in recent years The 23 chapters in this edited collection track the paradigmatic shifts of AIED in STEM education discussing how and why the paradigms have shifted explaining how and in what ways AI techniques have ensured the shifts and envisioning what directions next generation AIED is heading in the new era As a whole the book illuminates the main paradigms of AI in STEM education summarizes the AI enhanced techniques and applications used to enable the paradigms and discusses AI enhanced teaching learning and design in STEM education It provides an adapted educational policy so that practitioners can better facilitate the application of AI in STEM education This book is a must read for researchers educators students designers and engineers who are interested in the opportunities and challenges of AI in STEM education

Journal of the Royal Sanitary Institute Royal Sanitary Institute (Great Britain),1922

*Journal of the Royal Sanitary Institute* ,1923

Journal Royal Sanitary Institute (Great Britain),1923

Disciplinary Literacy in Action ReLeah Cossett Lent,Marsha McCracken Voigt,2018-08-16 Much of the professional literature has focused on what disciplinary literacy entails this valuable contribution explores how it can be implemented in complex school settings Doug

Buehl Author of *Developing Readers in the Academic Disciplines* What happens when middle and high school teachers who know their content very well are told they should be teaching reading and writing too Is there a bit of resistance A decrease in self efficacy An overturning of curricula In *Disciplinary Literacy in Action* ReLeah Cossett Lent and Marsha Voigt show us a better way In this sequel to ReLeah's bestselling *This Is Disciplinary Literacy* the authors provide educators with what they've wanted all along a framework that keeps their subjects at the center and shows them how to pool strengths with colleagues in ongoing communities of professional learning PL around content specific literacy In each chapter and with a blend of lively disciplinary literacy teaching ideas and razor sharp insights on developing teacher efficacy and leadership ReLeah and Marsha take educators through a powerful PL cycle they can replicate in their school The authors know it works not just because the research says so but also because they have spent years refining the model in schools districts and regions With this book you will be ready for Collaborative learning that preserves discipline specific content yet keeps innovative daily practices of reading writing thinking and doing at the forefront Planning by autonomous literacy leadership teams with administrative support Implementation augmented by peer and disciplinary literacy coaching Reflection that leads to ongoing collective problem solving In the end it all comes back to how content teachers can best help students use literacy in all its forms to learn more deeply With *Disciplinary Literacy in Action* you have a proven framework for doing just that This is the resource to lean on as you work to ensure all students use literacy as a tool to think create and communicate in any endeavor

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