ABOUT SCIENTIFICALLY SPEAKING

Dr Stephanie Spincer is the **Director of Scientifically Speaking** and has extensive experience as a scientist, communicator and educator in Australia and overseas. She is a member of the **Science Teacher's Association of Victoria**, has been a partner with **CSIRO's Scientists in Schools** since 2010, and a presenter at **Mad About Science** for 5 years. Inspired by her science communication background, Stephanie developed a portfolio of engaging, exciting and enriching science incursions for primary school students, which she has been delivering at schools across Melbourne since 2012.

In 2022, Stephanie was selected as one of just 100 women globally, to participate in the **Homeward Bound international leadership program for women in science**, to increase the influence and impact of women with a STEMM background in making decisions that shape the future of our planet (www.homewardboundprojects.com.au).

Stephanie has a BSc (Hons) 1st class in Geology and Geophysics from the University of Sydney, a PhD in Earth Sciences from the University of Cambridge (UK), an MSc in Science Communication from Imperial College London (UK), and is currently undertaking a Masters in Teaching at Monash University.

TESTIMONIALS

"Your incursion was absolutely invaluable. The kids loved it and were thoroughly engaged by the hands-on nature of the experiments. I was blown away by how much scientific knowledge they were able to recount – it really sticks, and your work is making a huge difference in the science curriculum at our school. Thank you Steph!" ***Grade 3 teacher – Malvern Primary***

"As always, the kids and teachers loved your presentation Steph! If you ever want us to inform other schools of the value of the program just give them our number!" ***Grade 5 teacher - Gardenvale Primary***

"I have spent the last thirty minutes listening to a very over-excited 12-year-old who has found a new love for science! My daughter has done nothing but speak very highly of the Scientifically Speaking incursion today using words like informative, exciting and simply great fun! How nice to come home to absolute positivity!" ***Parent of Grade 6 student - St Anthony's Primary, Glen Huntly***

Stephanie has WWCC, Public Liability Insurance and a Covid safe plan

ABN 17 218 279 225

www.scispeak.net

ENGAGE | EXCITE | ENRICH

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"If you're scientifically literate, the world looks very different to you……and that understanding empowers you."

Neil deGrasse Tyson
astrophysicist & science communicator

PRIMARY SCHOOL SCIENCE INCURSIONS

Do you speak science?

Scientifically Speaking offers an exciting selection of **STEM incursions** designed to enhance the science literacy of primary school students from **Prep to Year 6**.

Presented by Cambridge-educated scientist, **Dr Stephanie Spincer,** all incursions involve hands-on experiments, interactive discussions, images and videos to engage, excite and enrich every student.

Content is **aligned with the Australian Curriculum and PYP**, with additional extension concepts included to challenge and inspire all levels of interest.

Become scientifically literate with Scientifically Speaking!

www.scispeak.net

BOOKING INFO & PRICES

Scientifically Speaking offers an exciting range of incursions from Prep to Year 6.

Topics are aligned with the **Audtralian Curriculum** and **PYP** and can be adapted for different year levels.

We come to you! We set up, pack up and supply all hands-on materials!

Maximum 30 students per session – multiple sessions per day can be accommodated to suit your timetable.

Please not that incursions use PowerPoint and YouTube to enhance and explain some concepts, so **access to a computer-connected screen** is recommended.

100 min (in class) & ONLINE incursions @ $15/student (minimum 20 students)
(Recommended for Year 2 and above to allow time for deeper exploration of topics)

50 min (in class) incursion @ $10/student (minimum 20 students)
(50 min incursions can be offered for Prep and Year 1 students in limited topics)

INCURSION TOPICS

WHAT IS SCIENCE? – Chemical Sciences (Science as a Human Endeavour) – Years **Prep-2**
Where does that come from? How does this work? Why is it so? Who are scientists and what do they do? Be a mini-scientist and conduct real scientific experiments. You might be surprised by what you discover!

COOL CHEMICALS – Chemical Sciences – Years **Prep-3**
What are chemicals? Where do we find them? What happens when we mix them together? Get curious about chemicals in this fun-filled, fizzing, colour-changing chemistry incursion!

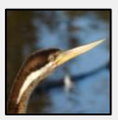
WHAT'S THE MATTER? – Chemical Sciences – Years **3-6**
How does matter change from one state to another? Explore different states of matter (solids, liquids and gases) with the most exciting phase changing substance - dry ice!

MATERIAL WORLD – Chemical Sciences – Years **3-6**
What are the properties of different materials? Have fun testing a variety of unusual materials including natural, synthetic, magnetic, conductive and shape-changing materials!

LIFE CYCLES – Biological Sciences – Years **Prep-3**
Do all babies look like their parents? What does a caterpillar's mum look like? Investigate life cycle changes of animals and plants and what factors all life needs to survive and thrive.

ALIVE OR NOT? – Biological Sciences – Years **1-3**
How do we define what's living and what's not? If something moves, it is alive? What about water? It moves but is it alive? Find out how to classify living and non-living things!

PLANT POWER – Biological Sciences – Years **3-6**
Plants are green machines and respond to different environmental factors. Grow your own seedling. Examine plants adaptations and learn more about the unusual and exotic plant kingdom!



AMAZING ADAPTATION – Biological Sciences – Years **4-6**
Survival of the fittest! Find out how life on earth fits best to different environments. Examine some weird and wonderful adaptations of plants and animals that ensure their survival!

MARVELLOUS MACHINES – Physical Sciences – Years **Prep-3**
Levers, wheels, screws, inclined planes. Simple machines make our lives easier in so many ways! Explore how machines make work easier and build a fun contraption to move an object from one place to another!

New in 2022
REVISION sheets
available
for all incursions

LIGHT & SOUND – Physical Sciences – Years **1-3**
What's faster than the speed of light? Where's the only place we can't hear sound? Explore a kaleidoscope of light and a cacophony of sound with this exciting incursion!

LIGHT & SHADOWS – Physical Sciences – Years **5-6**
What is light? What things generate their own light? What colour is light and how do we see colours? What kinds of light are invisible and how can we 'see' it? Refract, reflect and be absorbed by this bright incursion!

MAY THE FORCE BE WITH YOU – Physical Sciences – Years **2-5**
What makes things move, stop and change direction? Force of course! Push and pull your way as you explore contact and non-contact forces on land, water and in the air!

HEAT ENERGY – Physical Sciences – Years **3-6**
How does heat energy affect the world around us? Get energized learning about different kinds of energy and energy transformations from ice cubes to hot chocolate!

BLUE PLANET - WATER & SUSTAINABILITY – Earth and Space Sciences – Years **2-4**
H_2O is a precious resource. Learn about evaporation, condensation and precipitation in the water cycle. Understand environmental challenges and how water shapes our earth in this wet and wild incursion!

WE WILL ROCK YOU – Earth and Space Sciences – Years **2-6**
Earthquakes, volcanoes and **dinosaurs**! What's not to love about Geology? Erupt a volcano! Classify sedimentary/igneous/metamorphic rocks. Make an imprint of a fossil to take home!

SPACE, THE FINAL FRONTIER – Earth and Space Sciences – Years **3-6**
Planets, moons, meteorites, stars! Learn about our place in space in this out-of-this-world introduction to our Solar System, galaxy and universe! (**NB:** A focus on **day/night** and **seasons** is offered for Year 3.)

WEATHERING & EROSION – Earth and Space Sciences – Years **4-6**
Dig deeper into Earth processes. How is the Earth shaped by physical and chemical actions? Examine how water, wind and ice create unusual landforms. Erode a river valley and feel a glacier!

NATURAL DISASTERS & CLIMATE CHANGE – Earth and Space Sciences – Years **5-6**
Understand earth and weather-related natural disasters. Where do they occur and are they becoming more frequent? Erupt a volcano, cause a flood, and shake an earthquake!

CONTACT / BOOKINGS

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Indigenous perspectives are incorporated into many of the incursion topics highlighting connections between traditional and scientific knowledge