

WONDER OF SCIENCE

FOSTERING A STEM CULTURE IN QUEENSLAND SCHOOLS



Wonder of Science fosters a STEM culture that empowers and increases capability for positive student and societal outcomes via access to high-quality, evidence-based STEM education. Specifically, a culture where all students, their teachers, parents and other community members understand and value the importance and potential of Science, and STEM pathways and careers.

STEM INQUIRY TASKS



STEM INQUIRY -
CHALLENGING, REAL-WORLD
TASKS ALIGNED TO THE
AUSTRALIAN CURRICULUM

- The Wonder of Science challenge tasks immerse students in authentic and collaborative inquiry
- Students develop critical and creative thinking skills as they are challenged to develop a group response to a real-world problem or scenario

YOUNG SCIENCE AMBASSADORS



YOUNG SCIENCE AMBASSADORS -
INSPIRATIONAL PhD RESEARCH
STUDENTS ARE PASSIONATE
AND KNOWLEDGEABLE
STEM ROLE MODELS

- The Young Science Ambassadors support implementation of Wonder of Science, and judge presentations at the student conferences
- Teachers describe them as “bringing STEM to life” in their schools

STUDENT CONFERENCES



STUDENT CONFERENCES -
ASPIRATIONAL REGIONAL AND
STATE LEVEL STUDENT
SHOWCASE EVENTS

- Representative teams from participating schools are invited to present their challenge task response at a one-day regional student conference
- Winning teams receive medals and a trophy for their school and are then invited to State Conference held at a university campus each year

PARTNERSHIPS



STRATEGIC PARTNERSHIPS -
BETWEEN SCHOOLS,
UNIVERSITIES, INDUSTRY
GROUPS, NON-PROFIT
ORGANISATIONS &
GOVERNMENT AGENCIES

- Wonder of Science fosters partnerships between schools and the wider community through our partner organisations
- Our partners support the student conferences and other STEM experiences for participating schools

Wonder of Science supports implementation of the Australian Curriculum for students in years 4 to 9. Schools typically engage with Wonder of Science for one term each year.

FOLLOW



@WoSQld



@WonderOfScienceQld



wonderofscienceprogram



www.wonderofscience.com.au

What are the benefits?

Wonder of Science **inspires students** to engage in rigorous, real-world STEM learning and to aspire for excellence in STEM.

It encourages students to consider the exciting and diverse career pathways possible through STEM.

The Wonder of Science approach:

- develops deep understanding of STEM concepts in students
- promotes problem-solving skills, including critical, creative, collaborative and ethical thinking
- develops the student capabilities required to achieve and succeed in a rapidly advancing and changing world
- supports teacher capability for quality STEM teaching and learning



What's included?

1

Professional learning options for teachers: STEM Inquiry – the WoS approach

2

WoS challenge tasks, teacher unit overview, criteria sheets, lesson plan, investigation planners and Young Science Ambassador videos

3

Two ambassador visits (in-person or via video conference - see costs above) during the term

4

Attendance at a regional student conference for a representative teams from each class with trophy and medals for winning teams.

5

Attendance at State Conference for all regional winning teams

6

Extended opportunities for students through our strategic partnerships – for example, Year 6 Koala Camp at Aroona, near Grandchester.

CONTACT

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“The Wonder of Science program gave an equitable opportunity to all students in Year Four who would not otherwise aspire to the excellence that WoS and their ambassadors model. By Staff leading and Students taking part in the Challenge Task, it further ignited undiscovered passions for Scientific Inquiry, planting seeds of realistic and achievable personal goals for each diverse learner. This also increased motivations and fuelled immediate and future ambitions. By collaborating with WoS, we are proudly meeting the Education Queensland strategies for Equity and Excellence, along with fostering courage, connectivity, and creativity.”

- Sue Marsden, Year Four Teacher, and David Dobbin, PPLC Project
STEAM Coordinator, Mossman State School, Wonder of Science 2022 Annual Report



Find out more at our website:
wonderofscience.com.au

