

Mathematical Investigation Awards Category

Shirley Wang

Meriden School

Hydropower Optimisation with calculus & experimentation

The Young Scientist Awards committee would like to thank you for the time and effort you have put into your entry. We congratulate you on persevering with your project despite all the disruptions caused by the COVID-19 pandemic. We are hopeful that the working mathematical skills that you have adopted in your project will be of great benefit when undertaking further mathematical work during the remainder of your school life and that this experience has inspired you to pursue a STEM-based path in your future career.

Your project has been assessed by a team of judges who have assessed your entry against the judging rubric for your age and category. All judging rubrics are available on our website.

The strengths of the Working Mathematically components of your project include:

- explaining how mathematics was used in the construction or testing of your innovative device,
- identifying a need or problem and developing a solution.

Next time you could improve on this identified Working Mathematically component:

- replicating your experiment to ensure consistency of results.

Congratulations once again on your achievement, and we look forward to receiving more projects from you in the future.



Margaret Shepherd
President of STANSW



Anjali Rao
Young Scientist Co-ordinator