



# Guide to EngQuest

## (An Activity for Engaging Primary School Students)

### What is EngQuest ?

EngQuest is an engineering, hands-on way for Primary School Students to achieve key learning outcomes in science, mathematics and technology.

Fun and interactive student projects combined with comprehensive resources and teacher support make EngQuest the perfect package for primary school teachers across Australia. Registration is free and there are some fantastic prizes on offer. All students receive a certificate of participation recognising their efforts.

In 2005, over 4,000 students, in 976 teams, from 286 schools participated in the program. The number of students undertaking the program will increase significantly in 2006 and beyond.

EngQuest is a program of Engineers Australia. It is supported by the Australian Government through a Science Connections Program Grant administered by the Department of Education, Science & Training.

### Support Staff

For the program to run successfully, primary school teachers will need to be supported by professional engineers. Engineers Australia frequently looks for people to assist, particularly in the suburbs and regional areas. This is an excellent opportunity for local government engineers to gain community exposure.

### More Information

Contact State offices of Engineers Australia or visit the website: [www.engquest.org.au](http://www.engquest.org.au).

### Student Projects

#### *Lower Primary*

As Junior Engineering Detectives, students will work in teams to investigate simple machines in their local community. Students will create a picture book demonstrating the use of these simple machines and then design and make a simple lever catapult to launch a marshmallow a distance of at least one metre.

#### *Middle Primary*

As Mechanical Engineers, students will work in teams to investigate pulley systems in their local community. Students will design and construct a pulley mechanism using recycled and household items, and develop a portfolio documenting the investigation, design and construction process.

#### *Upper Primary*

As Civil and Structural Engineers, students will work in teams to conduct an investigation of playgrounds in their school and local community. Students will then design and construct a sturdy playground model and develop a portfolio documenting the investigation, design and construction process.