

Approved Specialist Program

Engineering Year 7-12



Staff

Being an Independent Public School, Newton Moore Senior High School is able to employ teachers at the school level with specific skills to compliment the Approved Specialist Programs and needs of students.

With many staff been recognised nationally and internationally as outstanding and exceptional in their field, students receive the benefit of learning experiences that are relevant, engaging, hands-on and applicable to our ever changing technology driven world.

Teachers at the school have achieved many awards including Engineer's Teaching Excellence Award, Australian Eureka Science Teacher of the Year, WA Premier's Science Teacher of the Year, WA Innovative Teacher of the Year, Curtin Teaching Excellence Award, Australian Innovative Teacher of the Year and Runner up in World Innovative Washington.

Newton Moore Senior High School is a school in which students feel safe to be themselves, are challenged in an innovative environment, work as members of teams and are given opportunities to demonstrate leadership and achieve success along many pathways.



Carolyn Bernard

Carolyn graduated in 2010 as Dux of Newton Moore Senior High School. Carolyn became a member of WA's elite 100 Club after achieving higher than 99 in her ATAR. Carolyn is studying Engineering at Curtin University. She received the BHP Billiton Worsley Alumina full scholarship for Engineering at Curtin University and won the Curtin University scholarship.

"The Newton Moore program has prepared me well for a future in Engineering. The staff and school were fantastic. We had great resources in our labs."

Selection Process

To ensure like minded, high achieving students are accepted into the program, a selection processes operates. Prospective students will be required to complete a written application providing evidence of their ability and sit an entrance test.

Enrolments are accepted for each year during Semester One. However new families to the region can apply on their arrival.

Early enrolments are encouraged to ensure selection.

Scholarships are provided for each year from our Industry and Community partners. These include BHP Billiton Worsley Alumina, GHD, Lowes Churchill and Associates, Doral, Simcoa, Lescenault Rotary and NMSHS Parents and Citizens.

Further information on the selection process is available by contacting the Head of Science, Mrs Lorraine Ellis on 08 97222454

Newton Moore Senior High School

Principal

Mrs. Susan Kerr

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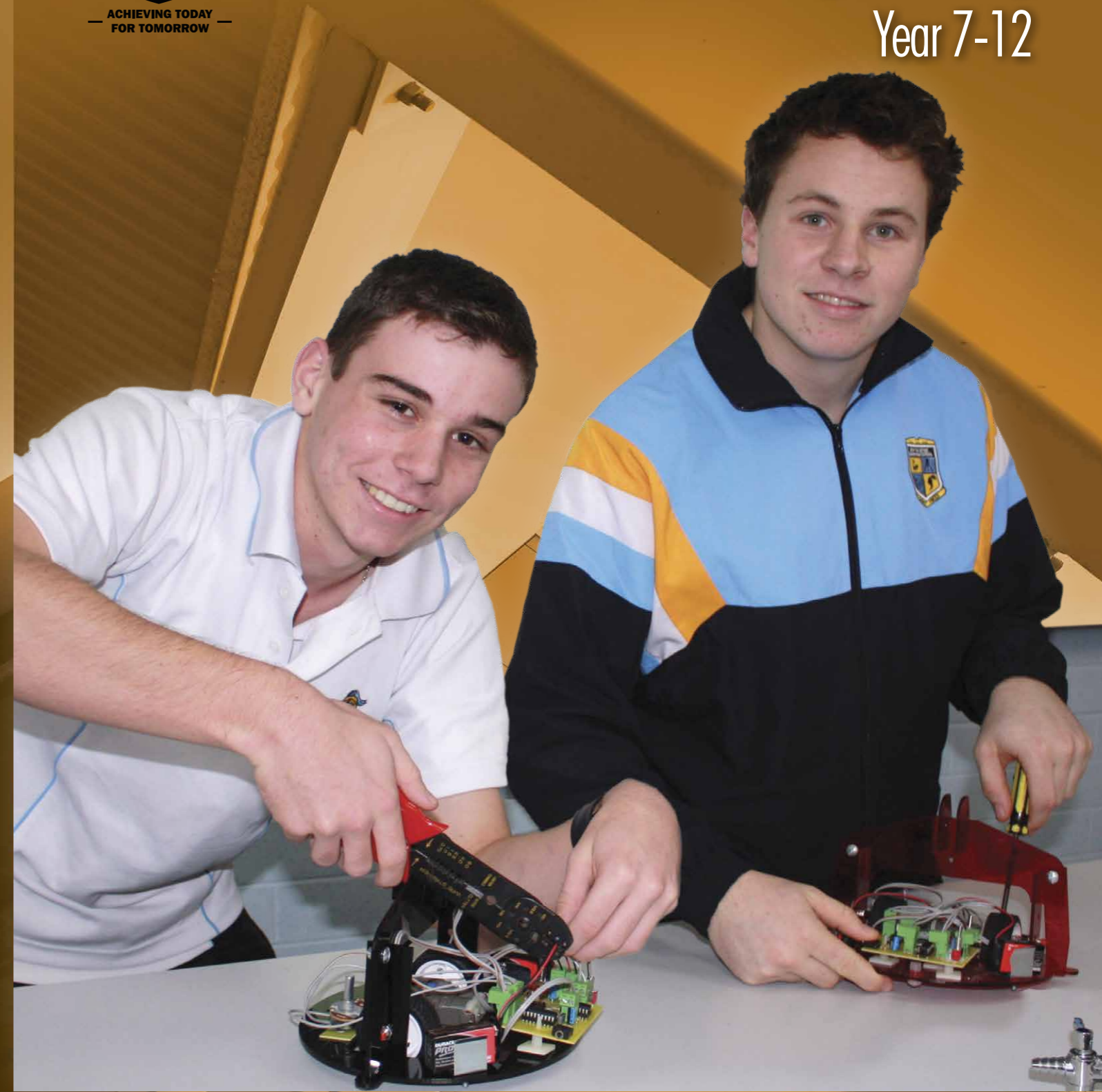
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Department of Education

Newton Moore Senior High School

Approved Specialist Program

Newton Moore Senior High School
Engineering Year 7-12



Engineering Approved Specialist Program

is for high achieving students with outstanding talents and passion for engineering. It provides a strong foundation for successful completion of Upper School Engineering, Science and Math courses. The program aims to accelerate and extend students to improve their performance and enhance university entrance acceptance into engineering and related courses.

The Engineering Program enables students living in the South West to access a field of education previously only available in the metropolitan area.

The program aims to give students a head start in the high demand career of engineering and to help fulfill the demand in global mining, construction, professional and technical services. To enrich the program Newton Moore Senior High School has established links with industry professionals and organisations who provide resources and mentoring to students.

Students develop individual excellence and collaborative skills by participating in

projects, competitions and model building. Extension can range from CSIRO Crest awards, Brain Bee, Engineer Challenge, Auricon Bridge Building and Robo competitions.

Students participate in a variety of extension forums such as in BHP Billiton's Engineer Outreach program, Science Summer Experience, Murdoch Summer School for Engineering, Community Science and Engineering Fair, excursions to universities, mine sites, processing plants and work experience.

The Program

In Lower School students are grouped together for Science, Maths, English, and Society and Environment. The Science and Maths class have an emphasis on the Engineering context. The essential curriculum is covered at an accelerated rate to meet the needs of talented students.

Students complete additional periods of Engineering as well as lessons in the workshop from a selection of Design and

Technology subjects. The Engineering includes Picaxe electronics, programming, solar car models, CAD programming, robotic engineering, materials and structures.

Students develop workshop skills using for example 3- D Printers, the laser cutter, welding and lathes. Newton Moore is a STELR (Science and Technology Education Leveraging Resource) school, acquiring resources and curriculum for engineering.

In Upper School the Engineering Approved Specialist Program builds on the Lower School Engineering Program. For university bound students Newton Moore offers WACE Stage 2 and 3 Engineering Studies, Physics, Chemistry and all Math stages. We are the only school in the South West region to offer Engineering Studies.

Students have a choice of a VET pathway in engineering, which has been running at Newton Moore Senior High School for over 20 years, or a University pathway.

Students are able to cross boundaries, to enrol in this Approved Specialist Program.

