SUBS in Schools

Her Way

You will design and build a ROV (remotely operated underwater vehicle) or a 3D Virtual Reality submarine living space using CAD software, 3D printing, laser cutting and VR technology. Work in a team to project manage the product and business development along with its branding and marketing. You will obtain sponsorship to fund the project and present the product and business at a trade display, including a verbal presentation for industry professionals. Roles in the team include Team Manager, Design Engineer, Resources Manager, Manufacturing Engineer and Graphics Designer.

Semester Elective Subject

Engage Skills	Extend Knowledge	Enrich Experiences
 Teamwork Collaboration with industry mentors Preparing a business plan and obtaining sponsorship Researching to expand knowledge Designing and building using computer-aided design (CAD), 3D printing and laser-cutting Testing and improving designs Presenting portfolios, engaging the public in a trade display and giving a team verbal presentation 	 Buoyancy and propulsion Electric circuits Engineering standards and terminology Effective visual, written and verbal communication Industry opportunities 	 Excursions to Australian Submarine Corporation, SAAB Australia and universities Mentoring by engineers working in the industry State and potentially national and international competitions Science and Engineering Challenge

Assessments/Outcomes	Pathways
 Enterprise Portfolio – Business and marketing Engineering Portfolio – Designing, manufacturing and testing the product Trade Display Verbal Presentation 	Subject Pathways: Business Innovation, Design Technology & Engineering, Mathematics, Physics, Visual Arts - Design Career Pathways: Engineer, Industrial Design, Defence Scientist, Mechanic, Interior Architect, Construction, Manufacturing, Project Management

