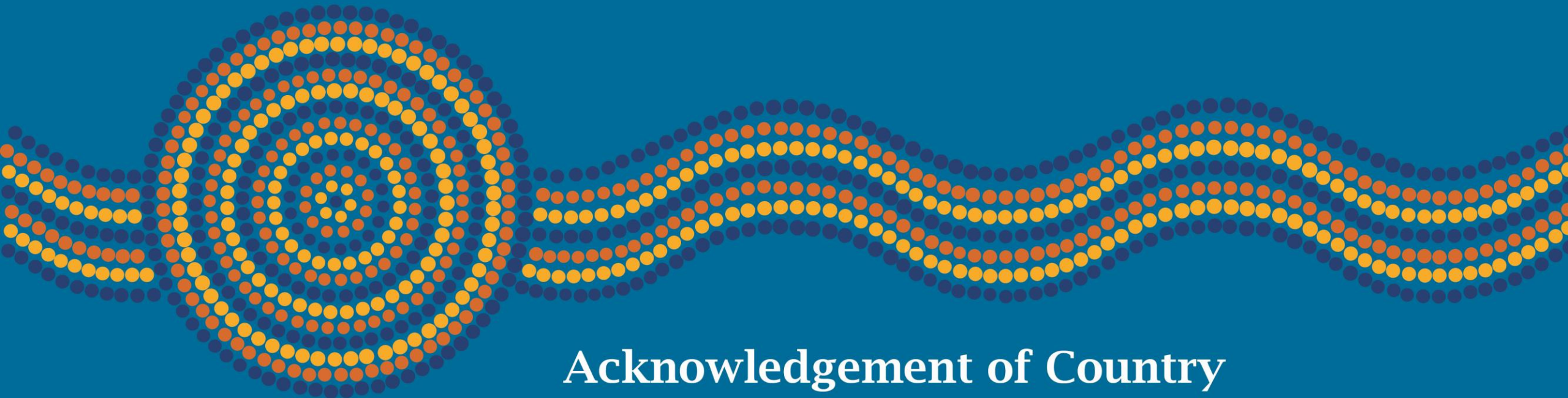


ICT APPROVED SPECIALIST PROGRAM

CREATIVE TECHNOLOGIES INSTITUTE
&
STEM INSTITUTE

Ashdale
Secondary College





Acknowledgement of Country

Ashdale Secondary College is situated on Whadjuk land.

We acknowledge the Traditional Owners of Country throughout Australia and recognise their continuing connection to land, waters and community.

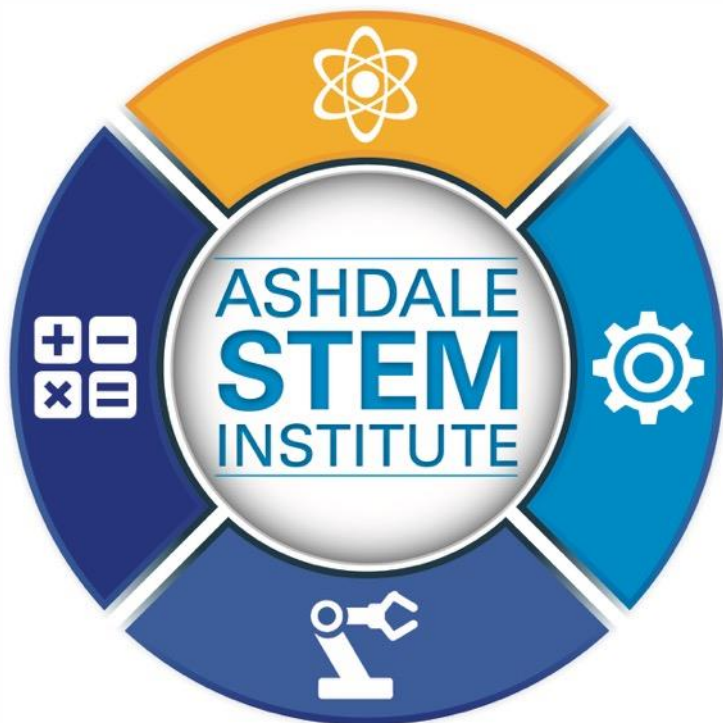
We pay our respects to the Noongar people and their cultures, and to elders past, present and emerging.

Ashdale
Secondary College





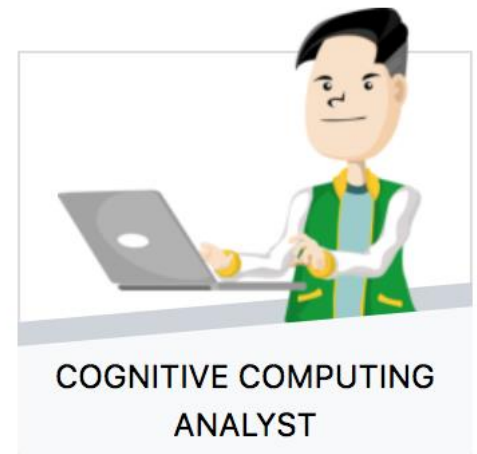
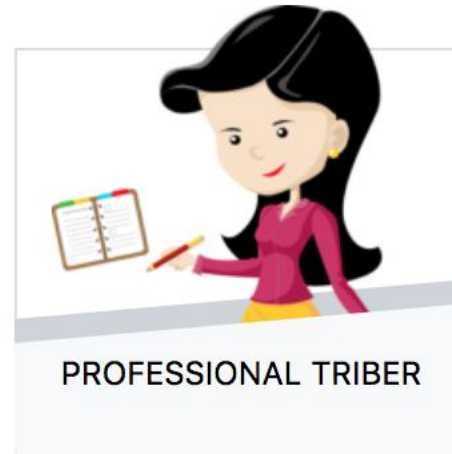
ICT APPROVED SPECIALIST PROGRAM





Why is STEM & Technology so important?

We all know the world is changing and with it the jobs of the future.





Why is STEM & Technology so important?

To create an educational environment that fosters the development of 21st century skills in students – critical thinking, creativity, communication and collaboration – so that they can be innovative thinkers who find develop solutions to global issues.

At Ashdale SC we want to ensure our students have the skills and opportunities to not be a victim of the future changes.... but be someone who can take advantage of them and thrive!



APPROVED SPECIALIST PROGRAM – 2 Institutes



In 2025 Ashdale will again offer the choice of two Institutes as part of the Approved Specialist Program

- 1) Creative Technologies Institute
- 2) STEM Institute





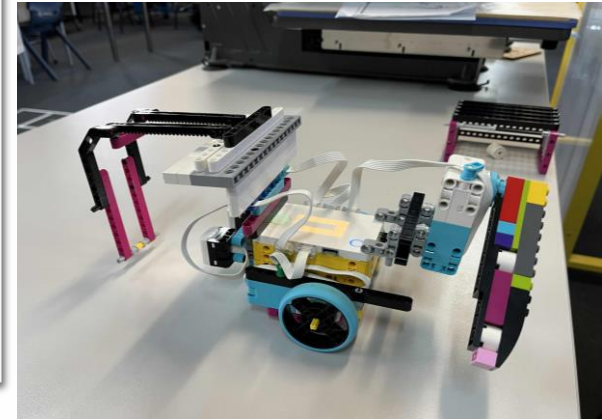
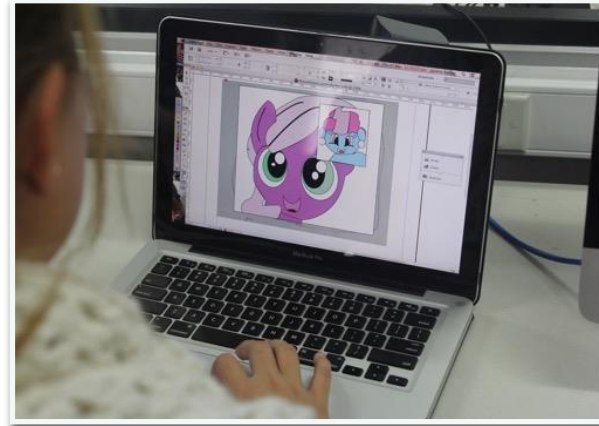
Creative Technologies Institute

The Creative Technologies Institute delivers an **enriched and accelerated digital and creative technologies curriculum** such as:

- graphic design
- photo media
- coding
- Lego robotics
- circuitry
- entrepreneurial skills
- video game design



To support these, students are provided access to cameras and media studio, 3D printers, virtual reality equipment and the Creative and iMac labs for ongoing project development.





Creative Technologies Institute





STEM Institute

The STEM Institute delivers an **enriched and accelerated curriculum across:**

- Science
- Mathematics
- As well as an **enriched** Digital Technologies curriculum



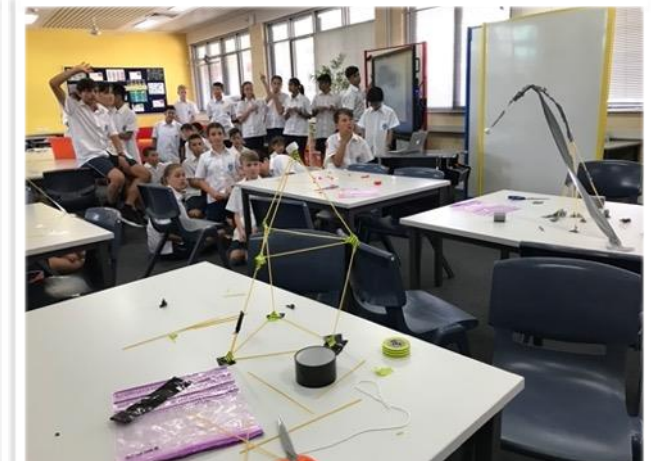
STEM is about using these areas of knowledge to solve real-world problems.

STEM Students will have access to 3D printers, laser cutters, mechatronics, the Creative lab, and virtual reality equipment to help build solutions as well as our software training lab and iMac labs.





STEM Institute





Achievements

2023

The median ATAR for STEM Institute alumni in 2023 was **89**. Twelve (12) of the cohort achieved an ATAR of 85 or above, demonstrating the strong foundation their involvement in the STEM Institute provided.

2022

Target 1.5 Students who complete Year 9 in the STEM Institute will achieve their WACE with a median ATAR of at least 85.

Ashdale Secondary College launched the STEM Institute in 2017 with an intake of 32 Year 7 students. The STEM Institute delivers an enriched and accelerated curriculum across Science, Technology, Engineering and Mathematics (STEM), nurturing high-achieving students to target career paths across various STEM professions. Curriculum delivery focuses on an interdisciplinary approach across STEM subjects. Lessons are designed around finding solutions to real-world problems. The STEM Institute develops critical thinking and problem-solving skills and creates an environment that promotes innovation, collaboration and an entrepreneurial mindset.

Students in the STEM Institute have access to tertiary and industry partners, exposing them to professionals within STEM fields. Participants can showcase their work in various forums, including expos, competitions and projects. Incursions and excursions are a valuable part of the program, enriching and enhancing the learning experience. In 2022, students within the STEM Institute were involved in the use and management of the Creative Lab and 3D Print Factory, provided access to Class Pads in Mathematics and the mechatronics workshop for laser cutting and prototyping.

The median ATAR for STEM Institute alums in 2022 was 88.05. It was very pleasing to exceed this target in the first year of the Business Plan, providing a baseline moving forward. Ten (10) of the cohort achieved an ATAR of 90 or above, demonstrating the strong foundation their involvement in the STEM Institute provided.



Differences

Differences between the two Institutes	CREATIVE Technologies Institute	STEM Institute
Duration of Course	Years 7 to 9	Years 7 to 9
Curriculum Focus	Enriched and accelerated Digital Technologies curriculum	Enriched and accelerated Science and Maths curriculum as well as Digital Technologies
Student Entry	Selection by numeracy testing, software assessment and an interview Students may also be required to participate in a range of STEM & ICT based activities	
Hours per week in Specialty Area	ICT – 2 hours Creative Lab / Skills Development – 1 hour	ICT – 2 hours Creative Lab / Skills Development – 1 hour
Before/Afterschool commitment	1 hour per week	1 hour per week
Remain with specialist group in other Learning Areas	No	Yes – Science and Maths
Hardware and Software requirements	Laptop or MacBook (please see device specification sheet)	Laptop or MacBook (please see device specification sheet)

Testing Session

The testing session will include the following:

- * A Mathematics based test
- * Completion of a software tutorial and activity
- * Interview with ASC staff member

and may include:

- * Group work on a fun design / engineering STEM task

Students will be assessed on their ICT and Maths ability as well as their STEM Skills such as Communication, Collaboration, Problem Solving and Creativity.

Exact testing format and location will be communicated closer to the date.



Application Process

Term 2 Week 1 & 2	Information provided to primary schools
Term 2 Week 3 Monday 29 April	Parent Information Evening
Term 2 Week 6 Friday 24 May	Expression of Interest close date
Term 2 Week 8 Week start 3 June	ASP Testing
Term 2 Week 11 24 – 28 June	Offers sent out



**EOI and Forms
due Friday
24 May**



Ashdale Secondary College

Ashdale SC is more than just STEM and Technology.

We also have the specialist Soccer and Netball academies as well as the Music specialist program!

When you come to Ashdale you will also get to experience a whole range of different learning. Including food, visual arts, textiles, metals, mechatronics, woodwork, dance, drama, media and photography.





More information...

ASHDALE
SECONDARY COLLEGE
Achieving a Positive Future

Home
About Us
Contact Us
Students & Parents
Teaching & Learning
News / Events Calendar
General Information
Specialist Programs & Academies
- ICT Approved Specialist Program
- Soccer Academy
- Netball Academy

Select Language

YOUR CHILD WILL HAVE THE OPPORTUNITY TO **ACHIEVE MORE** THAN YOU CAN IMAGINE

FIND OUT MORE ABOUT ENROLMENTS

WATCH OUR VIDEO

ASHDALE SECONDARY COLLEGE
An Independent Public School

75 Westport Parade Darch WA 6065
(08) 9302 7100
ashdale.sc@education.wa.edu.au

Visit: <http://ashdalesc.wa.edu.au/>



Questions?



Does anyone have a question they would like to ask?

Visit: <http://ashdalesc.wa.edu.au/>