In Semester 2 we will hold a **Sensors Immersion Day** to introduce you to our **term 3 Thales Design Competition**. The competition will be held across Bendigo, Yarra Ranges and Casey Tech School with great prizes to be won and local and state pitches to be held!

**CURRICULUM FOCUS**  Technology - Design / Digital Solutions | Systems | Mathematics

**INDUSTRY FOCUS**  Information Technology | Innovation | Engineering

**CAPABILITIES**  Critical & Creative Thinking | Collaboration | Personal & Social

**SKILLS FOCUS**  Initiative | Teamwork | Self-management | Communication

*Year 9/10 designers, coders and makers have the opportunity to design a sensor tech solution (system, product or environment) to make their community (e.g. school, home, club, Ballarat) better and safer. Students can participate with their class or independently as a team of 3 - 6 students.*

A sensor is a device, module, or subsystem whose purpose is to detect events or changes in its environment and send the information to other electronics, usually a computer.

**On this day students will:**

- Experience sensor technology as a system, product or environment and consider how to apply these as tech solutions.
- Understand the Thales vision “to make life better, to keep us safer” through sensors
- Explore their community to identify a ‘decisive moment’ to which they could apply a tech solution.
- Understand the Thales Design competition process and be provided with resources to assist them in their competition prototyping in term 3.

For further information call Sofia Fiusco BTS Director on 53278080

To make a booking email  ballarattechschool@federation.edu.au
TECH SCHOOLS

Calling all young designers, coders and makers in Year 9 & 10!

Do you have an idea that could make your community better and safer for all?

Thales is in an innovative and responsive global corporation that aims to create a socially, economically and environmentally secure future. Thales has technology “from the depths of the seas to the heights of space”.

Gather your team, define your decisive moment, create a solution using sensor tech solutions and pitch your idea in TERM 3 to make it happen!

Win great tech prizes for you and your school!

Contact your local Tech School

BALLARAT TECH SCHOOL
Discover today, design tomorrow

Visit ballarattechschool.vic.edu.au
Email ballarattechschool@federation.edu.au
Sensor Immersion Day Tuesday 30th July

In Semester 2 we will hold a Sensor Immersion Day to introduce students to our term 3 Thales Design Competition. The competition will be held across Bendigo, Yarra Ranges and Casey Tech School with great prizes to be won locally and at a state level.

Year 9/10 designers, coders and makers have the opportunity to design a sensor tech solution (system, product or environment) to make their community (eg. school, home, club, Ballarat) better and safer. Students can participate with their class or independently as a team of 3 – 6 students.

I hereby give permission for my child ________________________________ from ________________________________ (school) to attend the Sensor Immersion Day at the Ballarat Tech School, Building K 136 Albert St, Ballarat Central from 9.30 – 2.30pm Tues. 30th July.

I consent to my child participating in this program and in the event of illness or injury to my child, I authorise the teacher/program facilitator in charge of my child if unable or impracticable to contact me to consent to my child receiving such medical or surgical attention as may be deemed necessary. All expenses thus incurred will be paid by me.

Does your child have any allergies/medical conditions? YES / NO (please circle)

If yes, give details: ________________________________________________________________

Your child’s date of birth: _________________________ (to create an IT account)

Your child’s email address: ________________________________ (to create an IT account)

PARENT/GUARDIAN SIGNATURE: ___________________________________ Dated: ___________

Parent Emergency Contact Number on this day: ________________________________

Students are to wear school uniform, bring own morning tea, lunch and a drink bottle

RSVP forms by Friday 19th July to ballarattechschool@federation.edu.au

Any queries please contact Sofia Fiusco Director | 5327 8080
Sensor Immersion Day
Images & Testimonials Individual Consent

I grant the Ballarat Tech School hosted by Federation University Australia (“FedUni”) my permission to use, copyright and publish all photographs and/or footage taken of me for the purpose of promoting, marketing or publicising Ballarat Tech School. I also grant FedUni my permission to use and publish my name and all testimonials given by me for the purpose of promoting, marketing or publicising FedUni.

I waive the right to inspect or approve versions of the photographs and/or footage and/or testimonials used for publication by FedUni.

I release FedUni (and its officers, employees, agents, students and contractors) from any liability (to the extent permitted by law) for any loss, injury or damage suffered in relation to the use of my photographs, footage, name and/or testimonials, including but not limited to any claims of defamation, invasion of privacy or infringement of copyright.

I have read this document and understand and agree to its content.

If you have any queries please contact Sofia Fiusco Director, Ballarat Tech School 5327 8287

Executed as a deed by the person named below or his/her parent or guardian if under 18 years of age:

Student Name __________________________________________ Signature __________________________

Date    /   /

Parent / Guardian __________________________ Signature __________________________

Date    /   /

Privacy Statement

Your personal information may be collected and used for the purposes described above. Your personal information will only be used or disclosed for these purposes in accordance with the University’s Information Privacy Policy (which is available from http://policy.federation.edu.au/university/general/information_privacy/ch01.php) or where otherwise permitted by law. You may request your information to be amended or you may withdraw your consent for future disclosure by contacting the University’s Privacy Officer on (03) 5327 9021 or privacyofficer@federation.edu.au
THALES + Tech Schools Design Competition Q & A

In 2019 the Ballarat, Bendigo, Casey and Yarra Ranges Tech Schools are piloting a design competition in partnership with Thales and DET linked to the Thales vision “to make life better, to keep us safer” using sensor technologies.

Who are Thales?
Thales is an innovative and responsive global corporation that aims to create a socially, economically and environmentally secure future for all through the use of advanced sensor technology “from the depths of the seas to the heights of space”.

What do I have to do to enter the competition?
Students will form a team and respond to the competition brief by identifying a "decisive moment" from their experience and develop a tech solution that helps make their community safer.

Why is Sensor Tech Important to Thales?
Thales is a world leader in the application of sensor technologies to critical tasks and through this competition they are investing in Victoria’s future leaders.

How many in a team?
Each team can have between 3 and 6 students collaborating.

Are their team roles?
Team roles include; Solutions Architect, Designer, Marketing Manager

What year levels can enter?
Students must be in Year 9 or 10 and schools can enter multiple teams.

When does the competition run?
The Competition commences in July with an Immersion Day in each Tech School. Teams have all of term three to develop their entry and the submission date will be during the September School Holidays. See the detailed competition timeline document for more information.

What form could the tech solution take?
Teams can create a product, system or environment that would make their community safer and/or better.

**What if we don’t know much about sensor technology?**
Students will discover and experience different types of sensor technology at the Competition Immersion Day at their Tech School.

**What resources are there to help teams develop their entry?**
Partner schools will have expertise and equipment that can be available to teams and then if teams need additional resources or help they can contact their local Tech School.

**Can my team get help at the Tech School?**
There will be a limited number of supported workshops at each Tech School where you can get help and assistance. Check with your Tech School for timings.

**How will the competition be judged?**
Shortlisted teams will present entries at a local Tech School Regional Pitch final in front of a panel of judges from industry, Tech Schools and Thales. The winner from each Tech School Regional Final will then attend a State Competition Showcase.

**What are the Prizes?**
Great team prizes to be won! More information about prizes to be shared at the Competition Immersion Day!

**How do I find out more?**
Contact your local Tech School, go to the Tech School Website or ask a STEM teacher or Tech School Ambassador at your school.

**VISIT**

**EMAIL**
ballarattechschool@federation.edu.au

**PHONE**
53278080
**THALES + Tech Schools**

**Design Competition Timeline**

<table>
<thead>
<tr>
<th>Term 2</th>
<th>Thales Design Competition launched to Partner Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 3</td>
<td><strong>Competition Immersion Day Program</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Yarra Ranges Tech School 24 July</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Bendigo Tech School 25 July</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Casey Tech School 29 July</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Ballarat Tech School 30 July</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Students will:</strong></td>
</tr>
<tr>
<td></td>
<td>• Experience Thales as a world leader in the application of sensor technologies to critical tasks.</td>
</tr>
<tr>
<td></td>
<td>• Understand the Thales Design Competition vision “to make life better, to keep us safer” and competition rules.</td>
</tr>
<tr>
<td></td>
<td>• Experience sensor technology and consider how to apply sensors as tech solutions.</td>
</tr>
<tr>
<td></td>
<td>• Commence exploring their community to identify a “decisive moment” to apply a tech solution to.</td>
</tr>
<tr>
<td></td>
<td><strong>Partner school student teams to submit a competition concept two weeks after their local Competition Immersion Day:</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Yarra Ranges Tech School 7 August</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Bendigo Tech School 8 August</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Casey Tech School 12 August</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Ballarat Tech School 13 August</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Students will then work on their entry at their school.</strong></td>
</tr>
<tr>
<td></td>
<td>Each Tech School will deliver workshops locally to provide competition support during this time.</td>
</tr>
<tr>
<td></td>
<td><strong>26 September</strong></td>
</tr>
<tr>
<td></td>
<td>Submission of entries by Partner School Teams DUE</td>
</tr>
<tr>
<td>Local dates TBC</td>
<td><strong>Shortlisted Teams notified and invited to attend a Pitch Workshop prior to their Regional Pitch Event</strong></td>
</tr>
<tr>
<td>Term 4</td>
<td><strong>Regional Pitch Event at each participating Tech School</strong></td>
</tr>
<tr>
<td>November Date TBC</td>
<td><strong>State Competition Showcase. Winning regional teams and teachers to attend a gala lunch with Thales Graduates.</strong></td>
</tr>
</tbody>
</table>