

2018 Term 1 – Technological and Applied Studies Faculty (TAS)

Students at Farrer have achieved strong results in their 2017 HSC. In Industrial Technology, students performed well in the production of projects and folios with an exceptional level of achievement by Samuel Barden and Jack Foley achieving Band 6 (top 10% of their cohort in the HSC) and a further nine students achieving Band 5 results in Industrial Technology. In Engineering Studies students were also credited with strong results. For most students their HSC result in the TAS subject was their best overall.

Additional to the HSC success, two students had their projects nominated by markers for the annual InTech Display in Sydney. InTech is an exhibition of outstanding Major Projects for Industrial Technology. These projects were made by Liam Martin (IT-Metal) and Samuel Orman (IT-Multimedia).

We have started this year with a move into temporary classrooms to facilitate the construction of new dormitories in some of the existing TAS classrooms and staffroom. The new TAS building is underway with the area recently being cleared and levelled. Students and staff are excited to watch the large scale construction process taking place in a real life setting.

This year we have welcomed back to the faculty, Duncan Pollock. Duncan is teaching Information and Software Technology, Industrial Technology - Multimedia and Technology (Mandatory).

Information and Software Technology (Stage 5)

Both these classes have begun work on a redesigned program for IST centered around Game Development. The Year 9 students have been working on the first of many projects to introduce the skills and techniques required for app development and project management. Each project will have interactive elements, increasing in complexity, designed to extend the abilities of the students. The Year 10 IST class has begun work on their year-long project of building a fully fledged 3D computer game. The class has started by learning 3D modelling techniques required to build a 3D game character for their game, including rigging and animating the character. There are computer programming activities/projects for the boys in both Year 9 and Year 10. The level of interest, achievement and enjoyment that the boys are gaining from these classes is a reflection of their engagement in this course; well done!

Technology (Mandatory) - (Stage 4)

The juniors studying Mandatory Technology in Years 7 and 8 are completing their rotations through cooking, metal, wood, computing, graphics and the new unit on coding which is where a high level programming language is used to instruct a computer device to perform certain functions. Some great work is being produced and the classes are always keen and interested. Keep up the enthusiasm boys!

Industrial Technology - (Stage 6)

Major Projects in the HSC Industrial Technology in Metal and Multimedia courses are progressing along very well. Students in these courses have been very organised and have been enjoying the development of projects. With completed projects due at the start of Term 3 we will have a very busy term ahead.

Engineering Studies (Stage 6) & IT-Engineering (Stage 5)

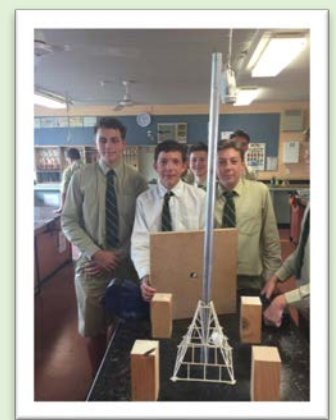
In Year 9 students have been studying a unit on structures. The boys were amazed to find the strongest tower was only 23 grams and withstood a load of 65 kilograms!! A result of great engineering.

In Year 10 the unit of study this semester is Alternative Energy. Students have designed, built and raced balsa cars powered by CO2 canisters and next term will be studying electronics, solar cells, hydrogen fuel cells as well as wind turbines.

In the senior school the students in Year 11 are starting the course in Fundamentals of Engineering and moving towards Products, Brakes and Bio Engineering for the rest of the year.

Students in Year 12 have studied the impact of Civil Engineering and Transport Engineering this semester. An excursion to Scone has consolidated classroom theory with real world practice by investigating the new construction of Middlebrook bridge, the suspension bridge at Murrurundi and the bridges at Aberdeen. We are very grateful for the support of Mr Christie and Scone Council.

Next term the boys are looking forward to studying Aircraft and Aerodynamics. A visit to Tamworth airport focusing on materials is always an exciting excursion and not possible without the support provided by Qantas Engineering, Aviskills and British Aerospace.



Industrial Technology – Metal (Stage 5)

The students in Year 9 have been learning all about Workplace Health and Safety, general fabrication techniques and the importance of quality control. The boys have been manufacturing a toolbox and chipping hammer. In Year 10 major project planning has been of an outstanding quality again this year. Some of the projects include: toolboxes, saddle racks, dog boxes, water features, outdoor tables, work benches and much more.

Industrial Technology – Timber (Stage 5)

Year 9 students in Timber have started the year learning about WHS and general workshop practices whilst completing the breakfast tray project as well as a wood lathe exercise. These projects have been exposing the boys to a good mixture of traditional hand cut timber joints and an introduction to workshop power tools and machinery. Year 10 students have been constructing a mirror frame of their own design whilst planning for their major projects to begin next term. There are a wide range of projects being selected such as coffee tables, bookcases, saddle racks, tea chests, work benches, and many others. We are looking forward to seeing the boys' skills develop as they begin these projects.

Food Technology (Stage 5)

Year 9 and 10 classes have started the year well, learning the importance of food handling within the kitchen. They have followed numerous recipes to produce a number of delicious meals including, chocolate lava cake, scones and pizza with handmade bases.

The Farrer TAS Faculty



Charlie Kelly, Tom Maxey & Patrick McCumstie (Year 7)



Daniel Rains & Darcy Devine (Year 8)



Johnty Pettet & Connor Harvey (Year 11)



Temporary TAS buildings taking shape.