Metal –
Year 10 Elective: - Semester 1

For details of Fabrication / Welding (Semester 2 Year 10 Elective) scroll down

Engineering/metalwork is popular with students interested in pursuing a career or interest in automotive, plumbing, electrical and general engineering.

In this unit students become familiar with a wide variety of hand tools, machinery, metals and processes. Students complete a range of set products such as a bevel square, plumb bob, toolbox saw and a negotiated product. This elective is also recommended to students wishing to study the Certificate 11 in Engineering, careers in this area are as a Fitter/Machinist, Maintenance fitter or Toolmaker.

At the end of the unit students will be able to develop a design brief, select appropriate tools, equipment and materials to manufacture a product in a safe and correct manner.

Major Topics Covered –
- Workshop safety
- Marking out
- Design
- Correct use of hand tools
- Machine tools – Lathe & Milling
- Precision measurement
- Finishing techniques

Pre-requisites Subjects - Nil

A materials fee of $60 applied.

Fabrication / Welding
Year 10 Elective: - Semester 2

Welding/fabrication is popular with students interested in pursuing a career or interest in plumbing, metal fabrication, welding, automotive and general engineering. This subject is also recommended for students who enjoy working with metal.

In this unit students become familiar with a variety of welding equipment – MIG, arc, and oxygen/acetylene. Students also use a wide range of fabrication and general sheetmetal equipment. Using both welding and fabrication techniques students will manufacture a toolbox, small chair and wrought iron plant stand plus a negotiated product.

At the end of the unit students will be able to develop a design brief, select appropriate tools, equipment and materials to manufacture a product in a safe and correct manner.
Major Topics Covered -
- Workshop safety
- Marking out
- Design
- Correct use of hand tools
- Welding
- Grinding
- Finishing techniques

Pre-requisites Subjects - Nil

A materials fee is applied.