

Year 10 Technology 2018 Index



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Subject Code Information:

Subjects with an A or B in their name: these subjects are Semester long units that can be studied individually or together to make a full year subject. There is **no** assumption that A has been studied before students can undertake the B option. Some subjects highly recommend both are studied (see course descriptions).

Subjects with a 1 or a 2 in their name: these subjects are sequential. Before students can study the 2nd option they must undertake the 1st option. There **is** an assumption that students know the content of the 1st option before they undertake the 2nd to enable them to be successful.

Length: 1 Semester

Assumed Knowledge:

Year 9 Technology

Description:

In this course students will learn the skills of using a range of technologies (e.g. 3D printers and scanners, CNC routers, lazer cutting) and other new technologies as tools to solve problems.

Students will plan and manage a digital project based on a problem that needs to be solved. They will use CAD programs to create design solutions to varied projects.

Students will be assessed on their ability to investigate, devise, produce and evaluate.

Future:

Skills developed in this course will be very useful for many school subjects as well as personal or professional use in the future.

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Length: 1 Semester

Assumed Knowledge:

Year 9 Technology

Description:

This course is based around the designing and making of an article of furniture and has a focus on the use of metal materials. Students will be required to supply or purchase the material for their take home project. Core skills in fabricating techniques (welding processes) could be covered using short ends materials from the school.

The course also requires students to produce a plastic/wood faced mallet that develops machining skills.

Students will:

- Investigate ideas for their project.
- Explore a range of materials and joining techniques.
- Access a much wider range of machines and processes.
- Be involved in planning and problem solving.
- Design using the computer modelling program

Safety glasses and solid shoes are required. The workshop will provide safety glasses but students are able to purchase their own through student services.

Assessment Details:

30% theory 70% practical.

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Technology Wood

Year 10

Length: 1 Semester

Assumed Knowledge:

Year 9 Technology

Description:

This course is based around the designing and making of an article of furniture. Students will be required to supply or purchase the material for their take home project. Core skills could be covered using short ends materials from the school.

Students will:

- Investigate ideas for their project.
- Explore a range of materials and joining techniques.
- Access a much wider range of machines and processes.
- Be involved in planning and problem solving.
- Design using the computer modelling program

Safety glasses and solid shoes are required. The workshop will provide safety glasses but students are able to purchase their own through student services.

Assessment Details:

30% theory 70% practical

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Technology for Girls

Year 10

Length: 1 Semester

Assumed Knowledge:

Year 9 Technology

Description:

This unit builds upon the work from Technology 2.

Students will:

- Develop practical skills using a variety of materials that relate to topics that inspire girls.
- Learn about Computer design and modelling
- Learn about tools, materials, processes and issues involved with technology.
- Use and apply information technology, mathematical and scientific principles in planning projects and solving problems.

Safety glasses and solid shoes are required. The workshop will provide safety glasses but students are able to purchase their own through student services.

This course will enable students to develop a solid base of skills and knowledge for Technology Units in year 11.

Assessment Details:

Students will be assessed on their ability to investigate, devise, produce and evaluate.

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Length: 1 Semester

Assumed Knowledge:

Year 9 Technology A or B

Description:

Students who intend to do the VET Doorways program in year 11 need to complete this course in year 10 in semester 2.

Students will:

Complete the 5 compulsory competencies for the certificate 1 in general building.

The elective competencies and certificate 2/3 competencies will be continued at year 11 and 12.

Students receive recognition for SACE units doing the program.

Safety glasses and solid shoes are required. The workshop will provide safety glasses but students are able to purchase their own through student services.

Assessment Details:

30% theory 70% practical

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