



Lithgow High School
Promoting Excellence In A Caring Educational Environment

Year Eight Elective Selection Book 2021

Textiles Leather Film
Making Keyboard Physical Science Health
Geography Technology Timber Arts Japanese Dance
Development Personal Metals Mathematics
Agriculture History Music Computing
Education Food History Visual Guitar English

Stage 4

TABLE OF CONTENTS

Pattern of Study	3
Course Costs	3
MANDATORY COURSES	4
ELECTIVE COURSES	4
ABORIGINAL STUDIES	5
AGRICULTURE TECHNOLOGY	5
AWESOME MATHEMATICS	6
BIG HISTORY	6
COMPUTER DESIGN & MANUFACTURE	6
DANCE	7
DRAMA	7
EXTENSION MATHEMATICS	7
FILM MAKING	7
HISTORY ELECTIVE	8
INDUSTRIAL TECHNOLOGY – TIMBER	8
OUTDOOR RECREATION	9
PHOTOGRAPHY	9
SPORT SCIENCE	9
STEM	9
ONLINE SUBJECT SELECTION INSTRUCTIONS	10

PATTERN OF STUDY

Lithgow High School offers a wide range of options to supplement the core courses that each student must study to meet the ROSA (Record of School Achievement) requirements.

Core courses include:

- English
- Mathematics
- Science
- History
- Geography
- Music
- PD/Health/PE
- Technology Mandatory
- Visual Art

We offer all students in Year 8 the opportunity to study an elective in semester one and a second elective in semester two. These are to help students make informed decisions and to sample a variety of courses in the lead up to Stage 5.

We offer all students in Technology, Visual Arts and Music experiences **beyond** the minimum required by the syllabus. These courses therefore have costs which cover the **additional** materials that your student will use in these classes.

Options are provided for two reasons:

1. To ensure that conditions for the RoSA are met. This means that every student must study a Visual Arts and a Music option from those listed. Students with a special interest may study a second option in these areas.
2. To prepare for informed choices of electives in Year 9 and 10, students are provided with the opportunity to sample a variety of courses in Year 8.

Note:

Some electives have subject costs to pay for materials used in the classes. **Where parents agree to their son/daughter taking that course, this is regarded as an agreement to pay the necessary subject cost.** Subject costs are determined by the faculties and are fully endorsed by the School Council and P & C Association.

Excursion costs are not included in the subject costs.

Katherine Gonzaga
HT Teaching and Learning

Karin Mawhood
PRINCIPAL REL

COURSE COSTS

A number of courses have a cost shown at the beginning of the course description. This cost is to allow the school to bulk purchase, in advance, materials needed so that the student can gain the full benefit of practical work.

It is expected that course costs will be paid at the start of the course, **i.e. February for Semester 1 and July for Semester 2.**

MANDATORY COURSES

You must take the following courses:

- English
- Geography
- History
- Mathematics
- Music
- Personal Development, Health and Physical Education
- Science
- Technology (Mandatory) - fee involved
- Visual Arts - \$30.00 fee involved

ELECTIVE COURSES

You may choose from the following elective courses:

- | | |
|----------------------------------|------|
| • Aboriginal Studies | NIL |
| • Agricultural Technology | \$25 |
| • Awesome Mathematics | NIL |
| • Big History | NIL |
| • Computer Design & Manufacture | NIL |
| • Dance | NIL |
| • Drama | NIL |
| • Extension Mathematics | NIL |
| • Film Making | \$20 |
| • History Elective | NIL |
| • Industrial Technology - Timber | \$25 |
| • Outdoor Recreation | NIL |
| • Photography | \$25 |
| • Sport Science | NIL |
| • STEM | NIL |

ELECTIVE COURSES

ABORIGINAL STUDIES

Materials Required: Exercise book and writing equipment

Course Cost: Nil

Course Description:

Aboriginal Studies provides students with opportunities to develop knowledge and understanding of Aboriginal Peoples, histories, cultures and experiences. It is designed for all students and is of value to both Aboriginal and non-Aboriginal students. Aboriginal Studies is a special opportunity for students to join a movement for reconciliation. Aboriginal Studies equips students with the skills to enter Stage 6 Aboriginal Studies, Modern History, Ancient History, Legal Studies, Geography, and Society and Culture, as well as post-school fields of law, education, healthcare, politics, tourism, science and land management to name a few.

What will students learn about?

Students learn about the diversity of Aboriginal Peoples' identities, cultures and communities, which are interconnected with Country and spirituality. They learn about the dynamic nature of cultural expression, and the maintenance of Aboriginal identities and cultures. They also develop understanding of the importance of self-determination and autonomy for the ongoing contribution and success of Aboriginal Peoples and communities. Students study historical and contemporary experiences of Aboriginal Peoples, factors that influence non-Aboriginal peoples' perceptions of Aboriginal Peoples and cultures, and the effects of these perceptions. They learn about the range of interactions and relationships between Aboriginal Peoples and non-Aboriginal people, and the continued roles of Aboriginal Peoples and communities locally, regionally, nationally and internationally.

Students develop understanding of community consultation protocols that enable them to engage respectfully and responsibly with their local Aboriginal community and other Aboriginal communities. They learn about the importance of Indigenous Cultural and Intellectual Property (ICIP), and ethical research practices to gather, protect and interpret data. In their research, students develop skills in the use of a range of research techniques and technologies to locate, select, organise and communicate information and findings.

Through their study of core and option topics, case studies and research, students develop knowledge, understanding, skills, values and attitudes that are of value to their personal, social, cultural, academic and professional development, and enable them to become active and informed advocates for a just and inclusive world.

AGRICULTURAL TECHNOLOGY

Materials Required: 100 Page A4 book or folder with individual sheets of paper
Covered shoes
Blue, black and red pen, pencil, ruler

Course Cost: \$25

Course Information:

This course is studied within the context of a minimum of two agricultural enterprises for 1 Semester. Agricultural enterprises may focus on plants or animals or integrated plant/animal systems. Practical experiences will occupy a minimum of 50 percent of allocated course time. Students must complete the essential content related to the core content of:

- Interactions - the relationship between biological, physical and social components in agriculture. Fundamental to balance the economic viability while sustaining the biological and physical basis of the farming systems employed.
- Management - informed decision-making and effective management of agricultural enterprises. Physical, biological, economic, environmental and social factors must be considered in the management of agricultural enterprises.
- Sustainability - practices that conserve soil and water quality and protect the environment, assure adequate and safe food supplies to consumers, while generating profitable returns for produces.

AWESOME MATHEMATICS

Materials Required: Workbook and writing equipment

Course Cost: Nil

Course Information:

This alternative Mathematics course looks at Mathematical applications, problems solving and the use of Mathematics in different situations.

Topics Include:

Fractals	Number Patterns	Trade Maths
Fibonacci	Maths in Nature	Pascal's Triangle

This course will allow students, through project based learning, a chance to improve their knowledge of Mathematics by use of investigation, problem solving with a hands-on approach to learning, incorporating technology.

BIG HISTORY

Materials Required: Exercise book and writing equipment

Course Cost: Nil

Course Description:

Big History examines our past, explains our present, and imagines our future. Big History is a social studies course that spans 13.8 billion years. It weaves insights from many disciplines to form a single story that helps us better understand people, civilizations, and how we are connected to everything around us.

What will students learn about?

- What is Big History
- The Big Bang
- Stars Light Up
- New Chemical Elements
- Earth and the Solar System
- Life on Earth
- Collective Learning
- Agriculture
- The Modern Revolution
- The Future: What's Next?

COMPUTER DESIGN & MANUFACTURE

Materials Required: Own device recommended but not essential

Course Cost: Nil

Course Information:

Computer Design and Manufacture provides the opportunity for students to learn about and use computer-based design and manufacturing technologies through a variety of practical experiences.

Students will learn to:

- Use Computer Aided Drawing (CAD) Software – 3D modelling of images and shapes using industry level programs.
- Manufacture components using 3D printing technologies.
- Design, produce and evaluate solutions using vector based drawing Software (Adobe Illustrator).
- Effectively use laser cutting technologies to produce solutions to given problems
- Produce Orthographic and Isometric Drawings using computer-based software
- Fabricate and assemble computer manufactured components.

DANCE

Materials Required: 128 page exercise book

Course Cost: Nil

Course Information:

This course will focus on the performance, composition and appreciation aspects of Dance. Three different dance styles will be covered and students will learn to develop confidence in performance. They will also learn to express themselves through movement. This course is designed to be a step towards Dance in Years 9 and 10.

At the end of this course students are expected to be able to:

- Perform as a member of a group
- Present a performance to an audience
- Discuss their own work and the work of others
- Compose their own dance sequence

DRAMA

Materials Required: 128 page exercise book

Course Cost: Nil

Course Information:

This course will focus on both the practical and theoretical aspects of Drama. Topics covered will be mime, movement, improvisation, scripted drama and performance. You will learn to develop self-confidence in communicating with others on an individual level, in small groups and to a larger audience. The course is designed to be a fun step up into Drama in Year 9 and Year 10.

At the end of this course students are expected to be able to:

- Perform as a member of a group
- Discuss their own work and the work of others
- Present a performance to an audience
- Set up an appropriate space for a performance

EXTENSION MATHEMATICS

Materials Required: Workbook and writing equipment

Course Cost: Nil

Course Information:

This course encourages students to refine the skills taught in Stage 4 necessary for future studies of Mathematics. This course is designed for those students wishing to study Stage 5.3 Mathematics, the highest level in years 9 and 10.

FILM MAKING

Materials Required: Nil

Course Cost: \$20

Course Information:

This course will give students an insight into the world of film making. The course will focus on both the practical and theoretical sides of film making. Topics studied include acting, scriptwriting, video camera skills, lighting, sound effects and film appreciation. This course is designed to give students an introduction to understanding the complex and creative skills required to make a film.

At the end of this course students are expected to be able to:

- Act out/express a variety of emotions and movements
- Write a simple screenplay
- Manipulate a video camera
- Set up lighting for filming
- Demonstrate an understanding of dedicated software

HISTORY ELECTIVE

Materials Required: Exercise book and writing equipment

Course Cost: Nil

Course Description:

History enables young people to develop an interest in and enjoyment of exploring the past. History Elective provides opportunities to develop a knowledge and understanding of past societies and historical periods.

What will students learn about?

Students explore the nature of history, heritage and archaeology and the methods that historians use to construct history through a range of thematic and historical studies. The construction of history is examined through options such as oral history, museum or archive studies, historical fiction, media, biography or film. Historical issues studied include the collection, display and reconstruction of the past, ethical issues of ownership, preservation and conservation of the past. Features of a range of ancient, medieval and modern societies are explored and students have the opportunity to study historical themes such as war and peace, crime and punishment, music through history, slavery and gender in history.

Students undertake processes of historical inquiry, including understanding and analysing sources and sequencing major historical events to show an understanding of continuity, change and causation. Students develop an understanding of historical concepts such as empathetic understanding, significance and contestability. They apply research and communication skills, including the use of ICT, and examine different perspectives and interpretations to develop an understanding of a wide variety of viewpoints. Students are provided with opportunities to construct a logical historical argument supported by relevant evidence and to communicate effectively about the past for different audiences.

Students will study at least ONE option from each of the following topics:

- Topic 1: History, Heritage and Archaeology
- Topic 2: Ancient, Medieval and Modern Societies
- Topic 3: Thematic Studies

INDUSTRIAL TECHNOLOGY - TIMBER

Course Cost: \$25

Materials required: A4 Display Folder
Pencils, pens, ruler
Sturdy covered shoes

Course Information:

The Timber focus area provides opportunities for students to develop knowledge, understanding and skills in relation to the timber and associated industries.

Students will develop skills in the use of tools, materials and techniques related to timber .

Practical projects undertaken will reflect the nature of the Timber focus area and provide opportunities for students to develop specific knowledge, understanding and skills related to timber technologies. These may include:

- decorative timber products
- furniture items
- small bowls or turned items
- storage and display units
- storage and transportation products

OUTDOOR RECREATION

Materials Required: Exercise Book, School Sport Uniform

Course Cost: NIL

Course Information:

This course will examine areas of outdoor recreation as part of a healthy lifestyle and lifelong physical activity.

It will include topics such as:

Archery

Orienteering

Camp craft

Environmental education

PHOTOGRAPHY

Materials Required: A4 Display Folder (included in cost)

Course Cost: \$25

Course Information:

Students are introduced to photography by using compact digital cameras. Students will have the opportunity to experiment with taking interesting photographs, printing techniques and using digital scanners. They will be introduced to, and experience manipulating images, through digital software programs.

At the end of this course students are expected to be able to:

- Identify and use various types of cameras
- Capture images electronically through the use of digital cameras to produce digital images
- Investigate methods of manipulating images through the use of software programs
- Select, appreciate and compose photographs

SPORT SCIENCE

**Materials Required: Exercise Book
School Sport Uniform**

Course Cost: NIL

Course Information:

This course will examine the relationship between sport and science.

It will include topics such as:

Physical Fitness

Technology in Sport

Sport Safety

Science Principles in Sport

STEM

Materials Required: Students own device

Course Cost: Nil

Course Information:

Offers wide opportunities involving Science Technology Engineering and Maths (STEM).

The main focus is on designing and building a robot that will compete in a number of competitions.

The focus of learning will be:

- Mathematics
- Science
- CAD Technical drawing. Essential skill for Engineers.
- Programming-The language of the future and what drives our robots.
- Electronics-How we connect the parts of our robots.
- Social Media-How we develop and promote our social media profile.
- Fabrication-how to put robot together.

This is hands on and practical work that will require a strong commitment to applying maths and science knowledge to mechanical and computerised systems.

Online Subject Selection Instructions Year 8 - 2021

You will be issued your Edval subject selection WebCode through your DEC student email. The subject selection form will be open from 8:00 am **Thursday 6th August 2020** till 9:00 pm **Friday 14th August 2020**.

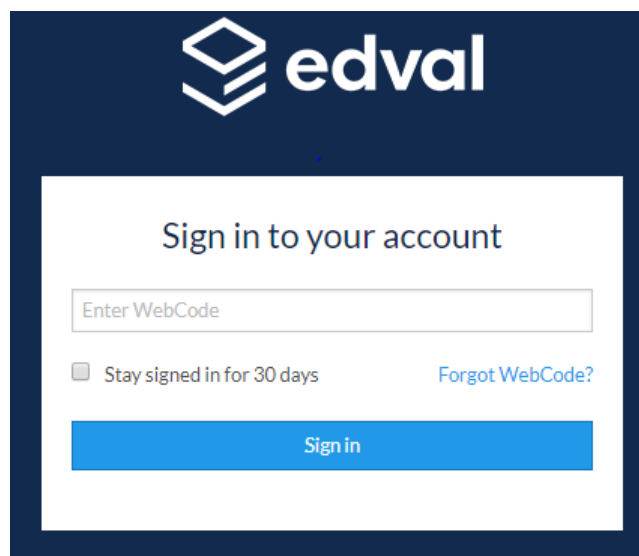
Please make sure you are at a computer which can print your subject selections. If you do not have computer and printer access at home staff will help you make your selections on one of the desktop computers in the Library.

Step 1:

Check your DEC email for your Edval subject selection WebCode and follow the link. If you do not get an email please see Mrs Farebrother in the E18 staffroom.

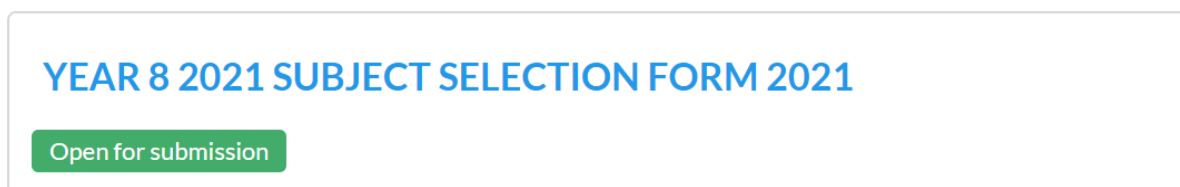
Step 2:

Enter your WebCode in the link



Step 3:

Select the box below to open the web form.



Step 4:

You should now see your name in the top right hand corner of this blank subject selection form.

The screenshot shows the 'Year 8 2021 Subject Selection Form' for a user named Peter Pan (Test student Yr8). The form is divided into two main sections: 'Main Units' and 'Reserve Units'. Each section contains a table with columns for 'Subject', 'Fee', and 'Units'. In the 'Main Units' section, there are two rows for 'Elective Choice 1' and 'Elective Choice 2', both with 'No selection' in the subject dropdown, a fee of '\$0', and '0' units. The total for this section is '\$0' and '0' units. The 'Reserve Units' section has two rows for 'Reserve 1' and 'Reserve 2', also with 'No selection' in the subject dropdown, a fee of '\$0', and '0' units. The total for this section is '\$0' and '0' units. At the bottom of the form are 'Cancel' and 'Submit' buttons. On the right side, there is a sidebar with 'Notes' and 'Rules' tabs. The 'Notes' tab is active, displaying the text: 'Year 8 - 2021 Elective Selection. Please select two electives for your Year 8 - 2021 preferences. You will also need to select 2 reserves.'

Step 5:

Enter your subject selections using the drop-down lists.

Your choices should be entered in **preferential order**.

You must make two reserve selections in case one of your main selections does not run.

The screenshot shows the 'Year 8 2021 Subject Selection Form' with subject selections made. In the 'Main Units' section, 'Elective Choice 1' is 'Agricultural Technology (\$25.00)' with a fee of '\$25' and '2' units. 'Elective Choice 2' is 'Outdoor Recreation' with a fee of '\$0' and '2' units. The total for this section is '\$25' and '4' units. In the 'Reserve Units' section, 'Reserve 1' is 'Dance' with a fee of '\$0' and '2' units. 'Reserve 2' is 'Photography (\$25.00)' with a fee of '\$25' and '2' units. The total for this section is '\$25' and '4' units. The 'Notes' sidebar on the right remains the same as in Step 4.

The form will display the cost of electives which require a fee and a Total for all elective fees.

Step 6:

When complete, click on 'Submit'. Your submission will be checked, and if valid it will be submitted.

Year 8 2021 Subject Selection Form



Student name: **Peter Pan (Test student Yr8) (DUMMY!8)**

Notes: **Your choices are registered.**

Submitted date: **Thu. 1 Jan. 1970 10:00:00**

Main units

Main Units	Subject	Fee	Units
8AG	Agricultural Technology	\$25.00	2
8OUR	Outdoor Recreation		2

Total electives fee: **\$25.00** Total units: **4**

Reserve units

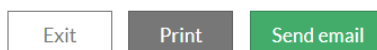
Reserve Units	Subject	Fee	Units
8DAN	Dance		2
8PHO2	Photography	\$25.00	2

Total units: **4**

Please get form signed, and return to school by Wednesday 19th August.

Signature: _____

Parent / Carer



Step 7:

Please print this page. Ask your parent or guardian to write their name and signature on the base of the form and return it to Mrs Farebrother or the box in the front office by **Wednesday 19th August 2020**.

PLEASE REMEMBER:

The online entry of subject selection must be completed by Friday 14th August 2020.

The signed hard copy of your selections must be submitted by **Wednesday 19th August 2020**.

If you have any problems following this online selection process please see Mrs Farebrother in the E18 staffroom.