



**Year 8 / 9**

**Electives Handbook**

**2024**

Dear Year 7 and 8 Student,

Over the coming week, you will be required to make choices about your study for 2024. You have the opportunity to choose subjects that you will enjoy, that you are good at and that you may need to support your career direction if you have one. We encourage you to put the time and effort into picking subjects that will engage and challenge you.

## Introduction

In Years 8 and 9 you will complete compulsory and elective subjects over the school years. Our curriculum aims to provide a broad range of choices, to enable you to explore your interests and talents and to acquire the requisite skills and knowledge for a successful transition into Year 10.

This Handbook provides a guide to selecting your elective subjects. Your final selection requires much consideration and investigation by you and your parents. We encourage families to discuss their several semester-long options and aspirations and take advantage of the expert advice offered at school.

If you have any difficulty or further questions you should talk with your Teacher Advisor, Class Teachers, Teaching and Learning Team members or Careers Coordinator.

## Subject Selection Contacts

Senior Pathways Coordinator Mrs Lesley Lannen [llannen@stbc.vic.edu.au](mailto:llannen@stbc.vic.edu.au)

### **Teaching and Learning Team:**

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# Year 8 and 9 Subjects

## Core Subjects in Year 8

- English
- Health
- Humanities
- Mathematics
- Physical Education
- Science
- Pastoral Care
- Religious Education
- Digital Technology
- Japanese

## Core Subjects in Year 9

- Religious Education
- English
- Health
- Mathematics
- Humanities
- Physical Education
- Science
- Pastoral Care

## Electives

The Arts	Product, Design and Technologies	HAPE
Art Drama Visual Communication Photography Music Media	Product, Design and Technology - Wood Product, Design and Technology - Textiles Product, Design and Technology - Plastics Product, Design and Technology - Metal Product, Design and Technology - Foods Digital Technologies	Outdoor Education (Year 9 only) Sports Academy
		<b>Science</b>
		Forensic Science
		<b>Languages</b>
		Japanese
		<b>Humanities</b>
		Humanities

You may combine your electives in a number of ways.

- Six different semester long subjects
- A combination of your choice
- Three subjects for both semesters

**To ensure that you develop skills across a range of subjects, draw yourself a draft planner over the two years. You can only do a subject 3 times over the two years. To create the best possible timetable, some subjects that you put in a particular semester may run in a different semester to what you've chosen. In this instance, we'll swap them round for you.**

## My Draft plan for Year 8 and 9

You should choose six elective subjects in a combination of your choosing.

### Year 8

	CORE	CORE	Elective	Elective	Elective
Sem 1	English Religion Humanities	Mathematics Science Physical Education	Textiles	Foods	Woodwork
Sem 2	Health Japanese	Pastoral Care Digital Technology	Woodwork	Foods	Plastics

### Year 9

	CORE	CORE	Elective	Elective	Elective
Sem 1	English Religious Education	Mathematics Science Physical Education			
Sem 2	Humanities Health	Pastoral Care			

## Subject Changes

You will select subjects for the full year but you may decide that you need to make changes mid-year. This is possible depending on existing class numbers and timetabling. You must speak with the Teaching and Learning team for this to occur and keep an eye on SIMON>daily messages for a message of a due date for changes during Term Two.

For those in Year 8, your planner does not lock you into your choices over the 2nd year - you will have the opportunity to revise going into Year 9.

## Subject Availability

All subjects offered are determined by staffing, facilities, resources and timetabling constraints. Therefore, subjects advertised in this Handbook may not run. If a clash in the timetable occurs or a subject does not run, a member of the Teaching and Learning Team will see you to work through your other choices.

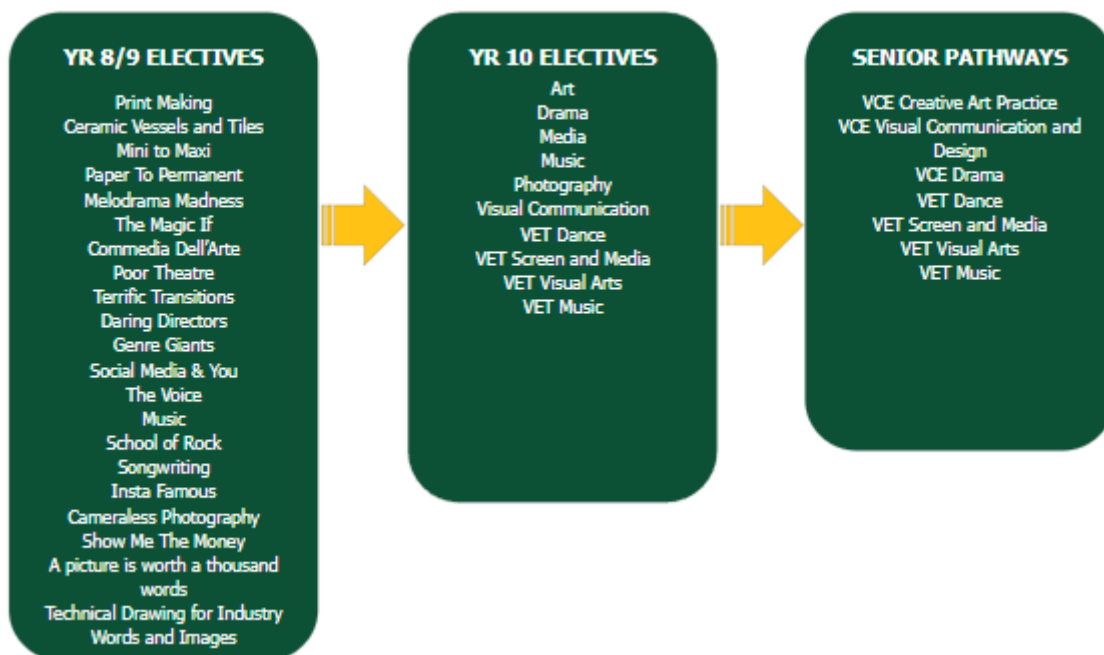
## How to Select Your Subjects

You will be given a log-in and password during Term Three to submit your selections online. Once this is complete, you will receive a printed copy for you to take home and have signed by your parents.

If you do not receive your copy or you lose it, you should contact the Teaching and Learning Team for a new one.

# Arts Electives

## Arts Pathways



## Art

2024	2025
<p><b>Semester One – Printmaking</b></p> <ul style="list-style-type: none"> <li>Print, play &amp; make. Students will use specialised printing equipment and materials and develop skills using printmaking conventions to produce layers of colour and editions of work. Use printmaking techniques such as lino, intaglio, collagraphs, gelli plates, screen printing and street art stencils.</li> <li>Think creatively and critically to develop their own ideas.</li> <li>Explore the use of art elements and principles to develop meaning in artworks.</li> <li>Gain inspiration from and analyse the works of printmakers and other artists.</li> </ul>	<p><b>Semester One – Mini To Maxi</b></p> <ul style="list-style-type: none"> <li>Explore how using art elements and principles, and different mediums and techniques, affect the meaning of an artwork.</li> <li>Investigate the art principle of scale where students develop an understanding of the impact a size of an artwork can have on a viewer.</li> <li>Examine the 'Pop Art' movement by working in 3D construction to create miniature and oversized sculpture related to popular culture today.</li> </ul>
<p><b>Semester Two – Ceramic Vessels and Tiles</b></p> <ul style="list-style-type: none"> <li>Explore hand built Jomon (Japanese) Pottery and use this as inspiration to design and make a vessel using hand-building techniques including slab and coil techniques and decoration.</li> <li>Experiment with slip casting ceramics using plaster moulds and learn the techniques of wheel throwing</li> </ul>	<p><b>Semester Two – Paper To Permanent</b></p> <ul style="list-style-type: none"> <li>Develop and practise a range of drawing skills and methods, using a variety of interesting materials, media and methods.</li> </ul>

<p>to create shallow bowls and vessels that you could use at home.</p> <ul style="list-style-type: none"> <li>• Produce ceramic tiles that display a variety of ceramic decoration techniques such as sgraffito.</li> <li>• Explore the work of ceramic artists and their methods through research.</li> </ul>	<ul style="list-style-type: none"> <li>• Build a folio of drawing explorations and a final artwork which uses drawing and paper in the final presentation and/ or development of ideas.</li> <li>• Think critically about their own work and the work of others.</li> </ul>
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## Drama

2024	2025
<p><b>Semester One – Melodrama Madness</b></p> <ul style="list-style-type: none"> <li>• Explore the concepts and characters of melodrama</li> <li>• Develop and perform a group performance</li> <li>• Critically evaluate and analyse professional performances of melodrama</li> </ul>	<p><b>Semester One – Masks and Mayhem</b></p> <ul style="list-style-type: none"> <li>• Improvise and explore characters with traditional Commedia Dell’Arte masks</li> <li>• Develop a series of group performances, large and small</li> <li>• Critically evaluate and analyse one of the most famous Commedia Dell’Arte productions, <u>The Servant of Two Masters</u>.</li> </ul>
<p><b>Semester Two – The Magic ‘If’</b></p> <ul style="list-style-type: none"> <li>• Explore the Stanislavski method of acting, including the tools and techniques</li> <li>• Develop and perform a solo performance</li> <li>• Critically evaluate and analyse a professional performance using the Stanislavski method</li> </ul>	<p><b>Semester Two – Poor Theatre!</b></p> <ul style="list-style-type: none"> <li>• Explore the richness of Grotowski’s Poor Theatre - doing so much, with so little.</li> <li>• Develop and perform a solo performance using the conventions of Poor Theatre</li> <li>• Critically evaluate and analyse a professional performance that applies the conventions of Poor Theatre</li> </ul>

## Media

2024	2025
<p><b>Semester One – Terrific Transitions</b></p> <ul style="list-style-type: none"> <li>• Explore different media platforms, including social media platforms (such as TikTok), and the media text created for these platforms.</li> <li>• Examine and discuss how media texts created for these platforms meet or manipulate the expectations of an audience.</li> <li>• Develop and refine your media production skills by planning, filming and editing your own media texts.</li> </ul>	<p><b>Semester One – Genre Giants</b></p> <ul style="list-style-type: none"> <li>• Explore the codes and conventions of different film genres.</li> <li>• Investigate how film directors use elements such as camera techniques, editing and sound to create media texts.</li> <li>• Develop and refine media production skills by planning, filming and editing their own media texts.</li> </ul>
<p><b>Semester Two – Daring Directors</b></p> <ul style="list-style-type: none"> <li>• Explore how film directors use elements such as camera techniques, editing and sound to create</li> </ul>	<p><b>Semester Two – Social Media &amp; You</b></p> <ul style="list-style-type: none"> <li>• Investigate the social, moral and ethical impact of social media and advertising on society.</li> </ul>

<p>media texts.</p> <ul style="list-style-type: none"> <li>• Discuss film work to identify and explain how production elements, like camera work and sound, create audience engagement.</li> <li>• Develop and refine media production skills by planning, filming and editing your own media texts.</li> </ul>	<ul style="list-style-type: none"> <li>• Explore how cultural, social and environmental issues are represented in the media.</li> <li>• Develop and refine media production skills by planning, filming and editing their own media texts.</li> </ul>
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## Music

2024	2025
<p><b>Semester One – The Voice</b></p> <ul style="list-style-type: none"> <li>• Examine what exactly is singing and when did humans start singing as a form of communication.</li> <li>• Explore the human voice as a musical instrument and engage with vocal music across a range of cultures, times, and locations.</li> <li>• Use your understanding of underlying musical elements and vocal technique (breathe control, phrasing etc) to critique the contestants on “The Voice” competition.</li> </ul>	<p><b>Semester One – School of Rock</b></p> <ul style="list-style-type: none"> <li>• Learn about rock and roll as a subject.</li> <li>• Explore the origins of rock in the 12 bar blues.</li> <li>• Develop an understanding of the musical elements (such as rhythm, melody, harmony, form) through an exploration of the history of rock and roll from the 1950s to the present day.</li> <li>• Produce the playlist for the ultimate rock and roll album, either by playing your chosen instrument or by curation.</li> </ul>
<p><b>Semester Two – Music - 40 years of hip hop</b></p> <ul style="list-style-type: none"> <li>• Explore the story of hip hop from its humble origins in the Bronx in New York to its current place as a dominant force in popular music.</li> <li>• Develop your understanding of the underlying elements of music and stylistic features that are unique to hip hop, starting off with old school rap and moving through genres such as G funk.</li> <li>• Using the musical elements of hip hop and the art of the DJ as a foundation, create your own tracks and radio show.</li> </ul>	<p><b>Semester Two – Songs of social justice and protest</b></p> <ul style="list-style-type: none"> <li>• Explore the general purposes of music and then focus on the use of music as a rallying cry for social justice and reflection.</li> <li>• Develop your understanding of the underlying elements of music, starting with the history of protest music from the 19th Century and continuing to music of the 20<sup>th</sup> and 21<sup>st</sup> centuries.</li> <li>• Using your understanding of the musical elements that are important in a song of revolution, create your own song of protest to stir people into action for a worthy cause.</li> </ul>

## Photography

2024	2025
<p><b>Semester One – Insta Famous - Identity in the Media</b></p> <ul style="list-style-type: none"> <li>Learn how the media skews identity, how famous people construct an online persona and identity, and how to spot fakes.</li> <li>Explore what is right and wrong with advertising online and fake information.</li> <li>Learn and evaluate how to use Adobe Photoshop to create fake information.</li> </ul>	<p><b>Semester One – Show Me The Money - Careers in Photography</b></p> <ul style="list-style-type: none"> <li>Explore ways to make money using photography, commercial photography, photojournalism and photography competitions.</li> <li>Learn how to speak to people emotionally through photojournalism and capturing of images.</li> <li>Preparing for photographic competitions and exhibitions including Hugh Jenkin Photographic competition .</li> </ul>
<p><b>Semester Two – Cameraless Photography</b></p> <ul style="list-style-type: none"> <li>Create photograms using the darkroom that are inspired by other artists.</li> <li>Use Adobe Photoshop to creatively edit images that explore pattern and shape.</li> <li>Investigate pinhole cameras and the introduction of photography into mass society.</li> </ul>	<p><b>Semester Two – Narrative in photography</b></p> <ul style="list-style-type: none"> <li>Learn how to tell a story using only pictures and no words.</li> <li>Create a story inspired by Wes Anderson to suit a theme.</li> <li>Tell your own story and create your own theme.</li> </ul>

## Visual Communication

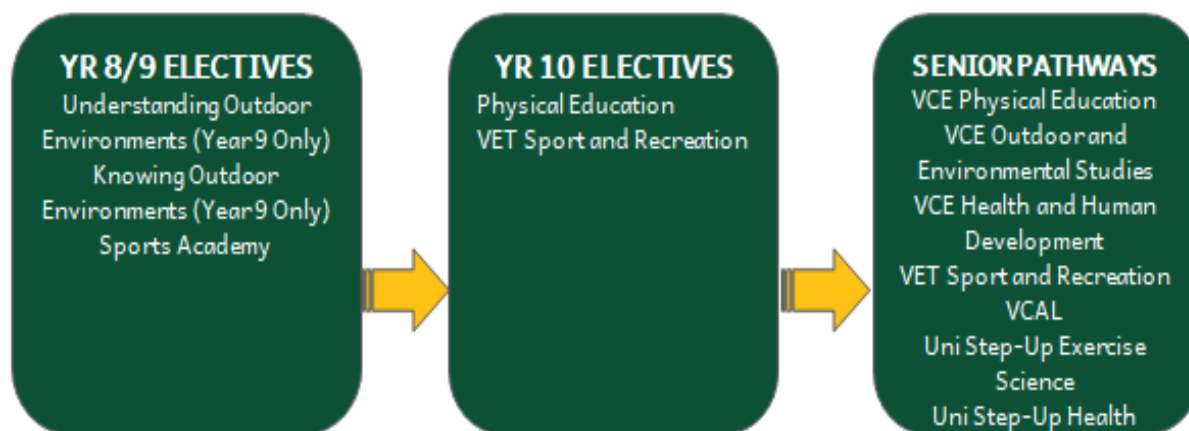
2024	2025
<p><b>Semester One – Technical Drawing for Industry</b></p> <ul style="list-style-type: none"> <li>Develop technical drawing skills for students who may be considering working in the industries of building, plumbing, electrical, cabinet making, architecture, landscape design, product design and engineering.</li> <li>Use drawing systems including plans and elevations, orthogonal drawing, isometric, planometric and perspective drawing using manual or digital systems.</li> </ul>	<p><b>Semester One – Words and Images</b></p> <ul style="list-style-type: none"> <li>Work to a brief for a variety of graphic design problems that focus on illustration and typography.</li> <li>Use the design thinking tools to expand your creativity and range of ideas</li> <li>Develop your work using design elements and principles, materials, digital and manual methods and media</li> </ul>
<p><b>Semester Two – Words and Images</b></p> <ul style="list-style-type: none"> <li>Work to a brief for a variety of graphic design problems that focus on illustration and typography.</li> <li>Use the design thinking tools to expand your creativity and range of ideas</li> <li>Develop your work using design elements and principles, materials, digital and manual methods and media.</li> </ul>	<p><b>Semester Two – Technical Drawing for Industry</b></p> <ul style="list-style-type: none"> <li>Develop technical drawing skills for students who may be considering working in the industries of building, plumbing, electrical, cabinet making, architecture, landscape design, product design, and engineering.</li> <li>Use drawing systems include plans and elevations, orthogonal drawing, isometric, planometric and</li> </ul>



	perspective drawing using manual or digital drawing methods.
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# Health and Physical Education Electives

## HEALTH AND PHYSICAL EDUCATION PATHWAYS



## Outdoor Education - Year 9 Only

### Structure

The Outdoor Education Program is offered to Year 9 students. For maximum benefit, it is recommended you study it in both semesters.

### Other Considerations

This subject attracts a levy in addition to annual school fees. Costs for 2024 will be determined in November 2023. Last year, the cost was \$400 (plus private food purchases) for compulsory camps across both semesters.

### Semester One Outdoor Education – Understanding Outdoor Environments

- Topics include:
  - risk factors in the outdoor environments
  - sustainability and minimal impact
  - world views on environmental management
  - camp preparation including work with tents, knots and Trangia cooking
  - and Bike Education.
- Apply this knowledge on a one night camp undertaking activities like problem solving, canoeing, fishing, hiking and team building.

### Semester Two Outdoor Education – Knowing Outdoor Environments

- Topics include:
  - Indigenous relationships before and after European settlement
  - Effects of industrialisation and nation building on food production, land and water degradation.
  - Importance of healthy environments
  - Minimal impact strategies for recreational activities.
- Apply this knowledge on a three day expedition undertaking activities like surfing, caving, sand boarding, abseiling and yoga.

# Sports Academy

## Structure

The specialised Sports Academy program requires a high level of commitment and for maximum benefit for students, it is recommended to study the specialised Sports Academy program in both semesters.

The specialised sports in focus are Basketball, AFL and Netball, but are not limited to these. Entry to the specialised Sports Academy Program is by application and interview. If you are interested in additional sports to this list, you are encouraged to apply, where further consultation about your options will occur.

## How to apply for Sports Academy

The selected application process allows St Brigid's College to determine a sound understanding of the level of support required to meet your goals in your chosen sport.

Step 1 - Download the specialised Sports Academy Application Form. This can be found on Knowledge Banks or see a Sports Academy teacher to assist you.

Step 2 - An Interview will occur. Where possible, the interview will include the parent/ guardian & Sports Academy teacher.

Step 3 - Acceptance and approval will then be finalised. Consideration on whether the St Brigid's College specialised Sports Academy Program can assist you in the chosen sport will occur. If St Brigid's College cannot cater for this chosen sport, further discussions about possible alternative avenues will be explored with you.

## Subject Levy

There is an additional cost of \$100, per semester unit selected, to participate in this program. The levy covers expenses such as travel, equipment, screenings, excursions and specialist coaches when required. Please see the Semester Overviews for more detail on the specific experiences.

2024	2025
<p><b>Semester One – Strength, Conditioning and Training Methods</b></p> <ul style="list-style-type: none"> <li>• Develop a personalised program which enhances your specialised sport through skill development, leadership, teamwork and resilience skills, with an emphasis on strength and conditioning and training methods.</li> <li>• Experience individual screening and receive a personalised plan with a Health Professional.</li> </ul>	<p><b>Semester One – Leadership and Coaching</b></p> <ul style="list-style-type: none"> <li>• Develop a personalised program which will enhance your specialised sport through skill development, leadership, teamwork and resilience skills with an emphasis on leadership and coaching</li> </ul>
<p><b>Semester Two – Injury prevention, Management and Recovery</b></p> <ul style="list-style-type: none"> <li>• Develop a personalised program which enhances your specialised sport through skill development, leadership, teamwork and resilience skills, with emphasis on recovery, injury prevention and management.</li> <li>• Take the opportunity to visit the Australian Sports Museum in Melbourne and an elite training facility and learn more about the expectations and programs delivered.</li> </ul>	<p><b>Semester Two – Sports Psychology and Mindfulness</b></p> <ul style="list-style-type: none"> <li>• Develop a personalised program which enhances your specialised sport through skill development and strength and conditioning with an emphasis on sports psychology and mindfulness.</li> <li>• Take the opportunity to visit an elite training facility and learn more about the expectations and programs delivered.</li> </ul>

# Language Elective

## Japanese

### Structure

Japanese is an elective subject. It is strongly recommended that students choose to study **both semesters as a sequence**.

During the two semester course:

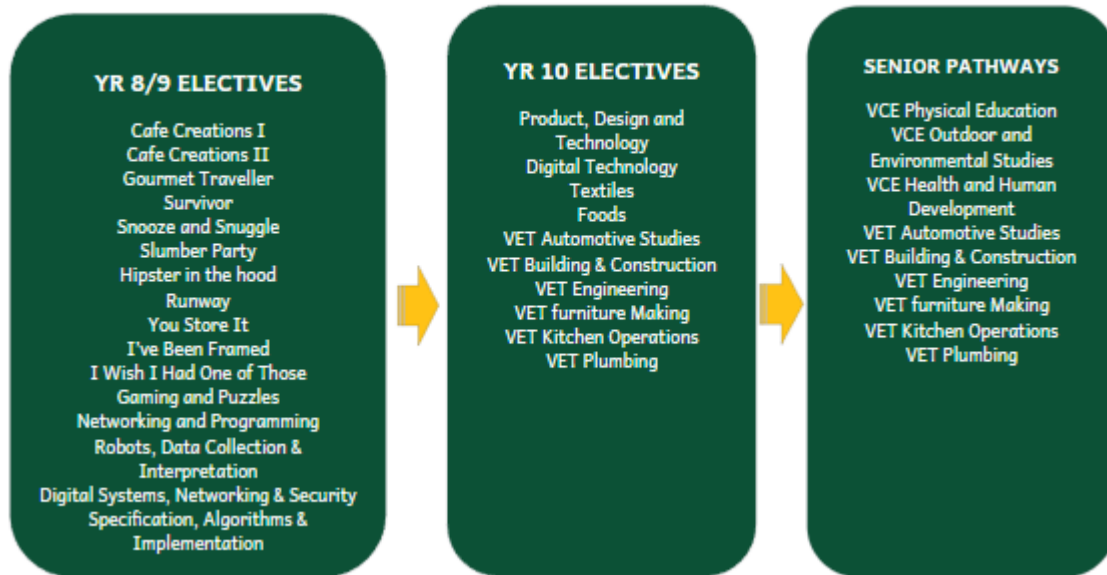
- Using the knowledge and skills learned in Year 7 and 8 Japanese, students further develop their speaking and listening skills, so that they can have basic and structured conversations around familiar and popular topics.
- Using the knowledge and skills learned in Year 7 and 8 Japanese, students further develop their reading and writing skills, so that they can write and read letters, words and basic sentences around familiar and popular topics in hiragana, katakana and some kanji letters. This might include the reading and/or writing (making) of café menus, manga stories, and PowerPoint presentations.
- Students will be introduced to basic adjectives (describing words) and verbs (doing words)
- Students will become more familiar with Japanese word order in sentences.
- Students will increase their knowledge about Japanese geography, traditional cultural practices and the differences in lifestyle between Japan and Australia

Possible topics:

Food, family, weather, dates, seasons, time, colours, transportation and traveling, nationalities, school life, places (town, home and country), history.

# Technology Electives

## TECHNOLOGIES PATHWAYS



## Foods

2024	2025
<p><b>Semester One – Café Creations I</b></p> <ul style="list-style-type: none"> <li>Produce a variety of café style recipes found on a café menu.</li> <li>Expand your knowledge and skills of safe and hygienic food preparation, ingredients, cooking techniques and processes.</li> <li>Practice a range of decorating and cake making skills, to design your own celebration cake.</li> </ul>	<p><b>Semester One – Gourmet Traveller</b></p> <ul style="list-style-type: none"> <li>Produce a variety of recipes that reflect on cuisines from around the world.</li> <li>Investigate factors that influence our food choices.</li> <li>Expand your knowledge and skills of safe and hygienic food preparation, ingredients, cooking techniques and design thinking.</li> <li>Experience an Easter treat and a multicultural banquet.</li> </ul>
<p><b>Semester Two – Café Creations II</b></p> <ul style="list-style-type: none"> <li>Produce a variety of contemporary style recipes found on a café menu, focusing on factors that influence a menu.</li> <li>Expand your knowledge and skills of safe and hygienic food preparation, ingredients, cooking techniques and processes.</li> <li>Design thinking will be applied to a gourmet burger, bush tucker and Christmas recipes.</li> </ul>	<p><b>Semester Two – Survivor</b></p> <ul style="list-style-type: none"> <li>Produce a variety of recipes expanding on your personal food knowledge and skills for everyday living.</li> <li>Experience a variety of flavours and cooking techniques understanding where food comes from and how it can be prepared.</li> <li>Design thinking will be applied to a food event and a Christmas-themed cake</li> </ul>

## Textiles

2024	2025
<p><b>Semester One – Snooze and Snuggle</b></p> <ul style="list-style-type: none"> <li>• Design and produce a snugly dressing gown and eye mask.</li> <li>• Work through the design process of investigating and designing; producing and evaluating to develop your knowledge and skills in the area of relaxation wear.</li> </ul>	<p><b>Semester One – Hipster in the Hood</b></p> <ul style="list-style-type: none"> <li>• Develop a design brief and produce a decorated hoodie choosing from a range of fabric embellishment techniques to decorate the hoodie.</li> <li>• Work through the design process of investigating and designing; producing and evaluating to develop your knowledge and skills in the area of current trends in clothing.</li> </ul>
<p><b>Semester Two - Slumber Party</b></p> <ul style="list-style-type: none"> <li>• Develop a design brief and produce either summer or winter pajamas and a matching heat pack.</li> <li>• Work through the design process of investigating and designing; producing and evaluating to develop your knowledge and skills in the area of nightwear and appropriate safer fabrics.</li> </ul>	<p><b>Semester Two - Runway</b></p> <ul style="list-style-type: none"> <li>• Work through the design process of investigating and designing; producing and evaluating to develop your knowledge and skills in the area of fashion.</li> <li>• Expand your skills and stun the crowd by creating your very own runway item, choosing from skirts, shorts, shirts or tops. Alternatively, choose a production item of your choice .</li> </ul>

## Product Design & Technology - Materials

2024	2025
<p><b>Semester One – You Store It!</b></p> <ul style="list-style-type: none"> <li>• Enjoy working with wood, metal and plastics using some of your basic skills in these areas.</li> <li>• Using the design process, clarify your understanding of design brief requirements and use a variety of drawing and modelling techniques to visualise your design ideas.</li> <li>• Work safely with a range of tools and equipment to produce a range of products from wood, metal and plastics materials.</li> <li>• Suggest modifications to improve your products considering evaluation of their function and appearance. Projects may include such things as containers, toolboxes, and other items based on the theme of storage.</li> </ul>	<p><b>Semester One – I Wish I Had One of Those!</b></p> <ul style="list-style-type: none"> <li>• Enjoy working with wood, metal and plastics using some of your basic skills in these areas.</li> <li>• Using the design process, clarify your understanding of design brief requirements and use a variety of drawing and modelling techniques to visualise your design ideas.</li> <li>• Work safely with a range of tools and equipment to produce a range of products from wood, metal and plastics materials.</li> <li>• Suggest modifications to improve your products considering evaluation of their function and appearance. Projects may include such things as gadgets or tools for around home or the shed.</li> </ul>

<p><b>Semester Two – I’ve Been Framed</b></p> <ul style="list-style-type: none"> <li>• Enjoy working with wood, metal and plastics using some of your basic skills in these areas.</li> <li>• Use the design process, to clarify your understanding of design brief requirements and use a variety of drawing and modelling techniques to visualise your design ideas.</li> <li>• Work safely with a range of tools and equipment to produce a range of products from wood, metal and plastics materials.</li> <li>• Suggest modifications to improve your products considering evaluation of their function and appearance. Projects may include such things as picture frames, racks, stands or other ideas used to display personal effects.</li> </ul>	<p><b>Semester Two – Gaming and Puzzles</b></p> <ul style="list-style-type: none"> <li>• Enjoy working with wood, metal and plastics using some of your basic skills in these areas.</li> <li>• Use the design process, clarify your understanding of design brief requirements and use a variety of drawing and modelling techniques to visualise your design ideas.</li> <li>• Work safely with a range of tools and equipment to produce a range of products from wood, metal and plastics materials.</li> <li>• Suggest modifications to improve your products considering evaluation of their function and appearance. Projects may include such things as game boards and various puzzles.</li> </ul>
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## Digital Technology

2024	2025
<p><b>Semester One - Networking and Programming</b></p> <ul style="list-style-type: none"> <li>• Investigate how information is transmitted and secured over different types of networks. For example, explore how your mobile phone works or what happens when you buy and download a song from Spotify.</li> <li>• Learn how to develop and modify your own programs using a general purpose programming language. For example, create your own video games or explore how we control the technology we use in our everyday lives.</li> <li>• Design algorithms to solve real world problems and represent them graphically and in English.</li> <li>• Explore solving problems; finding the right solution and with clear instructions help someone complete a simple task.</li> </ul>	<p><b>Semester One - Digital Systems, Networking and Security</b></p> <ul style="list-style-type: none"> <li>• Explore how systems are made up and their use in all aspects of our lives. Networks describe how we connect systems together and use them to transmit data. Security focuses on how we protect the data stored in and transmitted by systems.</li> <li>• Design the user experience of a digital system, evaluating alternative designs against criteria including functionality, accessibility, usability and aesthetics.</li> <li>• Investigate the role of hardware and software in managing, controlling and securing the movement of and access to data in networked digital systems.</li> </ul>
<p><b>Semester Two – Robots, Data Collection and Interpretation</b></p> <ul style="list-style-type: none"> <li>• Utilise robots to solve real world problems and evaluate how well your developed solutions and existing information systems meet needs, are innovative and take account of future risks and sustainability.</li> <li>• Acquire data from a range of sources and evaluate their authenticity, accuracy and timeliness.</li> </ul>	<p><b>Semester Two – Specification, Algorithms and Implementation</b></p> <ul style="list-style-type: none"> <li>• Solve problems, and factor these into our planned solutions and break a problem into more manageable pieces so it can be understood and solved.</li> <li>• Design algorithms represented graphically and in structured English and validate and test them.</li> </ul>

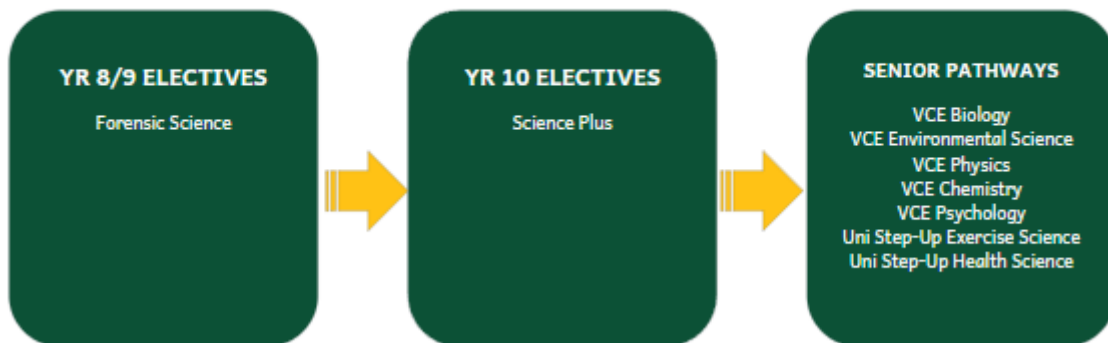


- Analyse and visualise data using a range of software to create information, and use structured data to model objects or events.

- Implement your problem design and algorithm to develop modular programs, applying selected algorithms and data structures including using an object-oriented programming language.

# Science Electives

## SCIENCE PATHWAYS

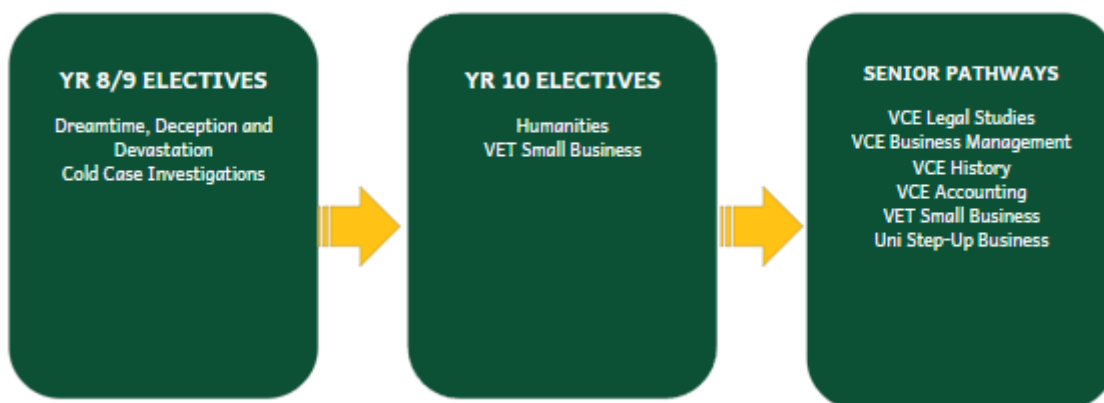


## Forensic Science

2024	2025
<p><b>Semester One – Who Done It? - A Mischievous Vandal</b></p> <ul style="list-style-type: none"> <li>Develop your Forensic Science inquiry skills, and your creative and critical thinking skills to solve this case: A large, multi coloured tag has appeared overnight on the side of the STEAM building. Whose tag is it? Who did this heinous crime?</li> <li>Explore topics including fingerprinting, hair analysis, working with facial composites, spray can fluid analysis and glass analysis.</li> </ul>	<p><b>Semester One – Who Done It? - The Ransacking Vandal</b></p> <ul style="list-style-type: none"> <li>Develop your Forensic Science inquiry skills, and your creative and critical thinking skills to solve this case: Breaking news - "St Brigid's college STEAM building bashed, crashed, smashed, busted!" On Monday morning a scene of carnage awaited the arrival of staff and students in the STEAM building.</li> <li>Explore topics including facial recognition, dental impression analysis, facial recognition, fibre and paint analysis and tool analysis.</li> </ul>
<p><b>Semester Two – Grand Theft Auto</b></p> <ul style="list-style-type: none"> <li>Develop your Forensic Science inquiry skills. and creative and critical thinking skills to solve this case: The showroom of a luxury car dealership has been broken into, a Bugati La Voiture Noire has been stolen and in its place lies a very curious ransom note. Can you help solve this case?</li> <li>Explore topics including tyre print analysis, drug analysis, handwriting analysis, glass analysis, non-blood spatter analysis and witness statements.</li> </ul>	<p><b>Semester Two – To Catch a Thief</b></p> <ul style="list-style-type: none"> <li>Develop your Forensic Science inquiry skills, and creative and critical thinking skills to solve this case. In a luxury resort town, a cat burglar is at large stealing cash and passing off counterfeit notes. Can you help solve this case?</li> <li>Explore topics including partial prints, shoe print analysis, drug analysis, counterfeiting and forgery and how to take witness statements.</li> </ul>

# Humanities Electives

## HUMANITIES PATHWAYS



2024	2025
<p><b>Semester One – The Good, The Bad and The Ugly</b></p> <ul style="list-style-type: none"> <li>Learn how to use primary and secondary sources to both investigate and legitimise the veracity of the past.</li> <li>Investigate why some people are remembered as villains and others remembered as heroes.</li> <li>Explore characteristics, traits and talents that lead to someone being classed as historically significant.</li> </ul>	<p><b>Semester One – Dreamtime, Deception and Devastation</b></p> <ul style="list-style-type: none"> <li>Immerse yourself in the stories of the Dreamtime</li> <li>Examine the clash of cultures, massacres and the building of a nation.</li> <li>Explore the challenges of reconciliation and the Voice for freedom.</li> </ul>
<p><b>Semester Two – Where in the World?</b></p> <ul style="list-style-type: none"> <li>Explore and tour amazing places of the world</li> <li>Learn why Australia is the place to be</li> <li>Plan your ideal city!</li> </ul>	<p><b>Semester Two – Cold Case Investigations</b></p> <ul style="list-style-type: none"> <li>Investigate the infamous Jack the Ripper Case.</li> <li>Research assassinations, conspiracies, and unsolved mysteries</li> <li>You be the detective!</li> </ul>