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English Extension

Key focus
English Extension will guide students through a study of literature from different historical and cultural contexts which express more sophisticated ideas and subtle language than already taught in Years 9 and 10. Students will compose written, oral and multimodal responses to texts and they will write creatively as well as analyse composers’ styles, tones and the effectiveness of their works. This subject will involve student directed wide reading as well as lively debates in class, supporting students' views on the texts, and how we see the world. Students will be reading ebooks through the kindle app, available on all devices. Those who possess a lively imagination, a positive work ethic, wish to improve their communication skills and enjoy respectfully debating their viewpoint are encouraged to enjoy this interesting and useful subject.

The following 4 units will be taught in Years 9 and 10
1) Australian literature
2) Shakespeare
3) Media studies
4) Themes of fantasy and future

What can I use English Extension for?
• A better understanding of compulsory English subjects through Years 9-12 and entry into extension English at college.
• Improving written, oral and visual communication skills.
• Better understanding different worldviews and how we fit into the world around us.
• The following careers will benefit from your study of English Extension: creative writing (including screen writing), journalism and media studies including marketing and advertising, bachelor degrees that rely heavily on research, analysis and deductive reasoning such as Law and History.
Woodwork

Key focus
Working with wood allows students to develop lifelong practical skills to assist them both now and in the future, as well as allowing them a creative space where they can follow their interests to design and build projects. In Semester 1, students research an individual project that will develop their skills and work with the teacher to choose a feasible design, which they go on to build for the remainder of the semester. This allows them to engage in meaningful learning, while developing important skills for the industry, such as time management, research and problem solving, as they navigate through the design and make process. Students develop skills in measuring, marking, using hand tools and operating machinery. In Semester 2, students are given opportunity to progress into prop production, working primarily with timber to create props and backdrops for the high school production. This is done in groups, helping to foster team work, collaboration and community as well as continuing to develop students’ practical skills.

The following two units will be covered in Year 9 and Year 10
1) Woodwork – design, make and appraise
2) Prop Production

What can I use Woodwork for?
- CIT Certificate in Carpentry or Construction, which leads into the trade industry.
- Maintenance skills and hobbies
Digital Technologies

Key focus
Digital technologies electives provide opportunities for students to; develop and extend skills in computational thinking, design and implement projects using a variety of software programs and gain and extend their ICT capabilities in order to pursue further study in the field of technology.

The electives follow the Digital Technologies National Curriculum and there is no prerequisite knowledge required for any of the courses. The vocational computer competencies units can only be completed once in the two year cycle and will include basic level ICT skills, working toward a Certificate 1 in Information, Digital Media and Design.

Assessments for all units are comprised of class work, projects and research tasks to create a digital portfolio.

The following four units will be covered in Year 9 and Year 10

1) Vocational Computer Competencies - using a personal computer, word processing, spreadsheets, information research, gathering data and website creation.
2) Emerging Technologies & Robotics - Lego NXT, VEX, Arduino boards
3) Vocational Computer Competencies - repeat of elective 1)
4) Digital design - game design, animations, movie making, Photoshop.

What can I use Digital Technologies for?

- Skills gained in this subject can be used across all learning areas, particularly for the completion of assignments in years 11 & 12.
- Provides preparation for tertiary study, a variety of careers or vocations where understanding of digital technologies and basic computer competencies is a standard skill in today's society.
Music

Key focus
Music is one of many avenues that allows students to be creative and emotionally respond to the challenges of their lives. Students will explore many styles of music to develop their musical knowledge and skill, and also to help them develop their ability to express themselves confidently and passionately. Throughout the course, students will learn key theoretical concepts that help to develop their composition skills and ability on their chosen instrument. The skills learnt through this course will help develop key character strengths that will assist students socially, academically and in their chosen profession.

The following four units will be covered in Year 9 and Year 10
1) Worship/spiritual music
2) World music
3) Composition and Improvisation
4) Film Music

What can I use Music for?
- Entry into Year 11 and 12 ACT music courses
- Bachelors of Music or Music Education, CIT Diploma of Music and can lead to careers in the composing, arranging and performing of music.
Agriculture

Key focus
Through the study of Agriculture, students develop knowledge, understanding and skills which enable them to contribute positively to their own lifestyle and to the social, economic and environmental future of Australia. This elective provides scope for students to explore the many and varied career opportunities in agriculture and its related service industries. It also provides students with an opportunity to experience aspects of an agricultural lifestyle through direct contact with plants and animals and a variety of outside activities.

The following units will be covered in Year 9 and Year 10
1) An introduction to Agriculture
2) Farm resources and production systems
3) Plant productivity and enterprises
4) Animal production and enterprises
5) Farming to make a difference.

What can I use Agriculture for?
- Entry into year 11 and 12 in ACT
- Bachelors of Agriculture, Bachelor of Agriculture Management, Bachelor of Agriculture Science, Bachelor of Sustainability
- Specific careers in Horticulture, Permaculture, Animal Husbandry etc
Extension Science

Key focus
In Extension Science, students will have the opportunity to reinforce and enhance the knowledge and skills covered in the core Science curriculum, as well as being introduced to a range of new advanced concepts across several scientific disciplines. Students will be able to apply the scientific process of investigation in a range of new inquiries and scenarios. This will encompass skills in questioning and predicting, planning and conducting experiments, processing and analysing data, evaluating evidence, and effectively communicating ideas. Students will also have the opportunity to grow in their understanding of the nature of Science and delve into the many relevant applications and influences of Science in society. This course will place students in a good position for undertaking the various Science disciplines available in years 11 and 12.

The following four units will be covered in Year 9 and Year 10
1) Extension Chemistry
2) Extension Biology
3) Extension Physics
4) Applied Sciences

What can I use Extension Science for?
- Entry into Year 11 and 12 Science courses
- Pursuing a Bachelor Degree in the area of Science at University
- Specific careers include medicine, engineering, environmental studies, research, physiotherapy
- Establishing a strong basis for understanding how the world around us works
- Gaining skills in the investigative process useful across multiple disciplines
Drama

Key focus
Drama is one of many avenues that allows students to be creative and emotionally respond to the challenges of their lives. Students will explore and develop the skills required to present the annual Secondary Production and then go through the process of planning and presenting the Production. Students will also further develop the script writing techniques covered in years 7 and 8. These skills will help students to gain confidence in voice projection, vocal clarity and speaking with emotion alongside physical expression including body language and facial gestures. The elements of Drama will be investigated and analysed by observing various dramatic performances.

The following three units will be covered in Year 9 and Year 10
1) Elements of Drama
2) Secondary Production
3) Australian Drama

What can I use Drama for?
- Entry into Year 11 and 12 ACT drama courses
- Experience required for amateur or professional drama or musical productions
- Entry into Bachelors of Stage and Screen, Acting and Performance or Fine Arts.
Design Technology

Key Focus
The Design Technology program provides students opportunities to develop critical thinking skills, knowledge and understanding of materials, tools and techniques in creating products and processes. Practical experiences to develop knowledge and skills, where students identify a need or opportunity and research and explore ideas for design development and production of a design project, will be the focus. Throughout the course, students will learn through guided experiments and exploration, individual practical works, critical investigations, oral and written responses, excursions, and build on art and textiles skills gained in year 7 and 8.

The following four units will be offered as semester units in Years 9 and 10
1) Fabric Decoration: Using a variety of techniques with dyeing, painting, embellishments and felting create pieces of wearable art.
2) Promotional Design: Develop a product for promotional purpose using a design brief to suit a particular product or environment.
3) Environmental Design: Using a variety of recycled products create a piece of wearable art.
4) Accessories Design: With a jewellery focus, students will create a number of pieces to accessorise an outfit.
Extension Mathematics

Key focus
Learning Mathematics creates opportunities for and enriches the lives of all Australians. Many of the jobs that advance technology and society as a whole – from computer programming to electrical and mechanical engineering, scientific research, company management or finance – require advanced proficiency in mathematics.

Studying mathematics exercises our brain in a manner that is quite different from most other human activities. Mathematics develops problem solving, reasoning, logic and proof. It is the ultimate portable skill, with a language and formulas that are true all over the world. It is thus perfect for "keeping your options open". Mathematics also has its own intrinsic beauty and has been used for centuries to explain the world around us and reveal God as the ultimate mathematician.

In Extension Mathematics, students will study topics that are outside of the curriculum and deepen their understanding of topics within the Australian Curriculum. They will also be introduced to a number of mathematical concepts and skills that are typically introduced in Year 11 Mathematics courses.

The following four units will be covered in Year 9 and Year 10
1) Number – real number systems, factorials and counting theory, bases, congruence and modulo arithmetic, complex numbers, logarithms
2) Algebra – equations, functions and relations, Boolean algebra, matrix algebra, proof and mathematical induction
3) Introductory Calculus – sequences and series, limits, differentiation and derivatives, real-life applications of calculus
4) Further Geometry and Calculus – circle geometry, further applications of calculus

What can I use Extension Mathematics for?
- A deeper understanding and appreciation of Mathematics
- Confident entry into Year 11 and 12 Mathematics courses
- With the evolution of computing, many areas have been opened up to mathematical advances - in finance, biology, weather simulation, medical diagnosis, image processing, for example
- For those with a substantial background in Mathematics, an unlimited number of career opportunities are available. There are opportunities in areas as diverse as banking, insurance and investment, environmental modelling, oceanography, meteorology, computing, information technology, government, education and research.

[Image: Mathematics is one of the essential emanations of the human spirit, a thing to be valued in and for itself like art or poetry.]

Oswald Veblen 1924
Visual Arts

Key focus
The Visual Arts program provides students the opportunity to create visual representations that communicate, challenge and express their own and others' ideas as artist and audience. Students will develop techniques and processes using a variety of mediums, develop critical reasoning and creative thinking. Throughout the course, students will learn through guided experiments and exploration, individual practical works, critical investigations, oral and written responses and excursions.

The following four units will be offered as semester units in Years 9 and 10

1) Ceramics:
Ceramics explores a wide range of clay construction methods such as pinch, coil, slab, free form modelling and thrown forms, glazing and firing. Students will draw knowledge from their study of contemporary artists work, investigate ancient influences, surface finishes, pattern and design to inspire them and expand upon their own creative practice.

2) Drawing and Painting:
This unit is an introduction to basic techniques designed for the student with some drawing experience gained in year 7 and 8. The course will cover hands-on skills and theory aspects in drawing and painting using a variety of media and techniques, including pencil, charcoal, pastels, watercolour, acrylics and mixed media.

3) Printmaking:
Students will have opportunities to develop and refine technical skills and create 2-D and 3-D compositions with a variety of media in printmaking. Media include mono printing, intaglio, lino printing and serigraphy. Student artists manipulate and refine the structural elements of art to improve mark-making and the organizational principles of design in a composition from observation, research, and imagination.

4) Sculpture:
This class explores the various materials used to create sculptures, which include cardboard, found and recycled objects, plaster, clay and stone. Students learn how to manipulate these materials and use sculpting tools safely. They analyse other works of sculpture through reading, discussion and critique and examine geometric, abstract and organic forms, including an excursion to the “Sculpture by the Sea” exhibition.
Food Technology

Key focus
Food is a vital and potentially vibrant aspect of our lives, affecting our health and relationships, and bringing people together across cultures. The Food technology units allow students to express their creativity while cooking and presenting a range of dishes from an extensive range of cultures. Their skills and knowledge are extended throughout the course, as they learn to prepare more complex dishes. Students will explore many types of cuisines and cooking methods to develop their practical skills, as well as learning the theory behind methods of cookery. Students are given opportunity to work towards achieving up to four competencies towards a Certificate II in Kitchen Operations (Hospitality) as part of our Vocational Education Training program. The Food Technology students are invited to attend an annual excursion to Sydney, where they are taken on a grass roots food tour, exploring the multicultural cuisines on offer.

The following four units will be covered in Year 9 and Year 10
1) Kitchen Operations A
2) Kitchen Operations B
3) International Cuisine A
4) International Cuisine B

What can I use Food Technology for?
• Working towards competencies for Certificate II in Kitchen Operations (Hospitality), which can be used as an avenue into working in cafes, restaurants, hotels and catering operations.
• After achieving Certificate II in Kitchen Operations, individuals could progress to Certificate III qualifications in commercial cookery, patisserie and catering operations.
Sport Science

Key focus
Sport Science contributes to the development of student’s physical, social and emotional growth. Students learn about physiological, psychological, and biomechanical principles, and apply these to analyse and improve personal and group performances in physical activities. Throughout the course, students learn through integrated written, oral and active learning experiences. The course also provides students with opportunities to develop skills that will enable them to pursue personal interests and potential in physical activity as athletes, coaches, officials, administrators and/or volunteers.

The following four units will be covered in Year 9 and Year 10
1) Developing physical skills and tactics
2) Functional Anatomy and Biomechanics
3) Exercise Physiology
4) Sport Psychology

What can I use Sports Science for?
- Entry into Year 11 and 12 ACT sports courses
- Bachelors of Sport or Exercise Science can lead to careers in the Fitness Industry, Exercise Science, Medical/Clinical or Corporate Health
- Specific careers include Physiotherapy, Exercise Rehabilitation, Ergonomic, Sports Coaching, Sport Psychology or Personal Trainer
All information contained in this booklet is current as at November 2015.

The school reserves the right to amend the contents as necessary.

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