



PINEHURST
SCHOOL

Curriculum Guide 2022



Dear Parents and Students

Many people will be reading this document because they are making subject option choices which will determine their classes for 2022. Students from Year 9 and 11 are making choices which will affect their next two years at school and beyond. Initially these decisions can appear daunting, particularly when a student is unclear of their future career pathway.

My advice is to not rush into making your decisions and to gather as much information as possible. This booklet identifies and provides a very basic outline of all the courses we offer at Pinehurst. More details, including syllabi and past papers, can be obtained from Cambridge International Examinations website www.cambridgeinternational.org. Talk with your child's subject teachers and our careers advisor Ms Griffiths. Choose your subjects thoughtfully. Do not be swayed by what friends are selecting, or who you think the teacher may be. Consider the coursework requirements.

At IGCSE level it is important to maintain a broad range of subjects. Year 10 and 11 students at Pinehurst can study English, Mathematics, Global Perspectives and then 6 additional IGCSE courses. This ensures students study a wide variety of subjects, which is very important at this level. At Year 12 and 13 a student will focus on 4 or 5 subjects. Studying each subject in far greater detail.

The IGCSE and A level subject groupings are carefully designed to provide as much choice and flexibility as is possible. Be aware that with such a variety of courses it is not possible for every student to select their first choice of subjects, there will be restrictions. Our subject groupings are carefully chosen and are based on university requirements, historical data, student numbers, availability of teachers and specialist classrooms.

When it comes to making subject choices for 2022, I would encourage students to make good use of this guide in conjunction with the advice of teachers, parents and our careers advisor. Fortunately, there is a wide support crew ready and willing to assist you in making the choices that will best suit your skills, your strengths and your interests.

Chris Wiggin

Deputy Principal of College - Progress and Achievement

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Introduction

This academic prospectus aims to inform students and parents of the IGCSE and A level subjects on offer at Pinehurst Senior College.

Please be aware that some courses may not run because of insufficient numbers and that some changes may occur due to staffing availability.

Due to the variety of subjects on offer, it is not always possible to accommodate every combination of subjects. The timetabling team work hard to minimise the number of clashes.

If you require more information about any of the courses in this booklet you can contact the following lead teachers:

| | |
|---------------------------|--------------------------------------|
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| Creative Arts: | Marija.Naumovska@pinehurst.school.nz |
| Languages: | Lauren.Sawyers@pinehurst.school.nz |
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Cambridge Examination Fees

Cambridge examination fees are not included within Pinehurst School fees.

Examination fees will be charged to accounts once examination entries have been submitted to CAIE in July.

2021 Cambridge Examination Fees were:

| | | |
|---------|----------------------------|--------|
| IGCSE | Each syllabus | £60.69 |
| A Level | Each AS or A2 syllabus | £63.91 |
| | Each full A level syllabus | £96.40 |

These costs are in GBP (£) to be used as a guide only, fees will be subject to change and the exchange rate at the time of invoicing

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YEARS 10 & 11

Cambridge International Examinations

IGCSE – International General Certificate of Secondary Education

For most students, the IGCSE course for each subject is a two year programme which commences at the start of Year 10, with final examinations held at the end of Year 11.

Pinehurst students sit examinations for up to 10 subjects.

Compulsory for Pinehurst students

- English Language and English Literature
- Mathematics

Students are to select an additional six subjects from the subjects offered in this prospectus spend 2 $\frac{3}{4}$ hours per week on each of their subjects. Students will also receive 2 periods of General Physical Education and 2 periods of Global Citizenship.

All IGCSE courses at Pinehurst lead to Extended Level examinations. Extended Level is aimed at grades of A*, A, B & C. Where appropriate some students may be entered for Core Level examinations. Core level is aimed at students who will achieve grades of C, D, E, F & G.

General Guidelines

When making your subject choices students are encouraged to consider the following points:

- Look closely at your present subjects. Think about which ones you enjoy and are successful at
- Maintain a broad range of subjects and avoid specialising too early in your school career
- Plan your option choices carefully, think ahead to what you may choose to study in Years 12 and 13. Some of these subjects will have pre-requisites
- If you have a future career path in mind, take the time and trouble to find out which subjects will be the most suitable.

Accounting

Accounting is not all about spread sheets. Accountants today are branching out into careers as exciting as forensic accounting and stockbroking. They end up as CEOs and CFOs, business advisers, financial analysts and leaders in the world of Corporate Finance. Accounting prepares you for a degree in Commerce, in general and the Accounting profession in particular. As a profession, Accounting will enable you to work in any industry and live the life you want to live.

Money is the engine that drives business - money is the language of business. Accounting will teach you how to use that language to make important business decisions as it provides a system by which the monetary value of transactions, both business and individual, is measured.

‘Professionals in accounting and finance hold some of the best and most influential positions in New Zealand and throughout the world. They are earning great money, shaping businesses worldwide and redefining what it means to be an accountant.’ – NZICA booklet.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|--------------------------|----------|---------------|
| 1 | Multiple Choice | 1h 15m | 30% |
| 2 | Structured Written Paper | 1h 45m | 70% |

Topics covered include:

- The Purpose and Functions of Accounting
- Business documents (Books of Prime Entry, The Ledgers)
- Accounting Procedures (Capital and Revenue Expenditure and Receipts, Provisions for Depreciation and Doubtful Debts, Accruals and Prepayments, Stock Valuation, etc.)
- Principles of Financial Statements (Income Statements, Balance Sheets)
- Preparation of Financial Statements (Sole Traders, Partnerships, Manufacturing Companies, Limited Liability Companies, Clubs and Societies and Incomplete Records)
- Analysis and Interpretation (Accounting Ratios and Their Interpretation, Inter-firm Comparison, Limitations of Accounting Statements)
- Accounting Principles and Policies (Incorporating the New International Standards)

Art and Design

Candidates will be led through an exciting course that explores all the fundamental elements of Art and Design whilst building and developing strong drawing skills. Students will be working across a wide range of disciplines that are encompassed in Art and Design, this includes Painting, Printmaking, Illustration, Photography, Design, Digital Art and Sculpture. Students will look at conventions of how other Artists work in contemporary and historical contexts whilst drawing influence from different cultures.

Experimentation is extremely important and students will have the opportunity to experience the different media and investigate new and exciting ways to use materials and techniques. Students will build a portfolio throughout Year 10 which will give a grounded and solid foundation on which to build in Year 11.

IGCSE

Grades available: A* to G

Candidates for IGCSE Art and Design are required to enter for Components 1 and 4. These Components are submitted towards the end of Year 11.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|--|----------|---------------|
| 1 | Supporting Studies Unlimited preparatory period during which time candidates produce their supporting studies And: Controlled test | 8h | 50% |
| 4 | Supporting Portfolio Candidates produce supporting work and a final outcome in the chosen medium | - | 50% |

Materials and techniques used include but are not limited to: Acrylic paint, oil paint, canvas art, watercolour, ink, print, screen printing, digital photography, digital art, illustration, collage, construction sculpture, murals, installation art and textiles.

Candidates will be working from direct observation, imagination and interpretation within a theme and create an authentic, vibrant personal response in the chosen media presented in a final outcome. This will form 50% of the course grade.

Students will then work towards an examination piece that will be planned with strong, personal supporting work that is made in the style and format of the candidates' choice to a theme. This forms 50% of the total grade at the end of Year 11.

Biology

Biology is an experimental science concerned with the way nature works. A Biology student is numerate, analytical, and practical, and has good problem solving, presentation and communication skills.

An IGCSE level in Biology provides an excellent starting point for a wide career choice within science, industry or commerce. A qualification in Biology offers many opportunities which include veterinary sciences, marine biology, environmental sciences, ecology, nursing, biochemistry, research biology, forensic science, pharmaceutical industries, physical education, product testing, health and medicine.

Biological related applications are to be found in almost every aspect of our lives, as well as applications in space technology, finding solutions to environmental problems, and developing new technologies for medicine.

Students will develop attitudes relevant to Biology such as concern for accuracy and precision, objectivity, integrity, enquiry, initiative and inventiveness. Students will gain an awareness that scientific theories and methods have developed, and continue to do so, as a result of co-operative activities of groups and individuals. Also, that the study and practice of science are subject to social, economic, technological, ethical and cultural influences and limitations.

IGCSE Core and Extended

Grades Available: A* to G

| Paper | | Name of paper | Duration | Weighting (%) |
|-------|--------------|--------------------------|----------|---------------|
| 1 | Core | Multiple Choice | 45m | 30% |
| 3 | Core | Written answer | 1h 15m | 50% |
| 2 | Extended | Multiple Choice | 45m | 30% |
| 4 | Extended | Written answer | 1h 15m | 50% |
| 6 | All Students | Alternative to Practical | 1h | 20% |

Topics covered include:

Cells and cell processes. Animal Nutrition. Plant nutrition and transport. Respiration and the human transport system. Coordination, response and homeostasis. Reproduction. Human reproduction. Inheritance and evolution. Organisms and environment. Human influences on the environment.

Business Studies

Students will develop an understanding of the role and purpose of business activity in the public and private sectors, and the importance of innovation and change. They will learn how the major types of business organisations are set up, financed and operated, and how their activities are regulated. The factors which influence business decisions, activities and outputs will also be considered.

As well as introducing students to the concepts and techniques used in business, the course will facilitate the development of other skills, such as numeracy. Students will be encouraged to understand the working world and the essential values of co-operation and interdependence. It is hoped that the Business Studies course will prepare them to meet the world of work with confidence and awareness.

Careers in business are wide ranging. No matter which pathway students choose in the future, they will likely be working in an organisational context and able to apply concepts and analytical skills that they learn in this course. Specifically, Business Studies can lead to professions such as business owner, human resources management, property development, finance management, business analyst, general management, operations management, marketing, and advertising.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|--------------------------------|----------|---------------|
| 1 | Short Answer and Data Response | 1h 30m | 50% |
| 2 | Case Study | 1h 30m | 50% |

Topics covered include:

- Business activity, entrepreneurship and stakeholders
- People in business
- Marketing and strategy
- Operations management
- Financial decision-making
- External influences on business activity

Chemistry

Chemistry is an experimental science concerned with the way nature works at the atomic and molecular level. The course will focus on:

- The structure and behaviour of atoms (elements)
- The composition and properties of compounds
- The reactions between substances with their accompanying energy exchange
- The laws that unite these phenomena into a comprehensive system

A background in chemistry is a powerful springboard to launch you into your future career. Chemistry combines well with physics and mathematics; it also links well with biology providing an excellent foundation leading to careers in environmental sciences and medically related disciplines. A person with a strong understanding of chemistry is prepared to assume a wide variety of positions in industry, education, or public service. It is obvious that a chemistry background is important if you plan to work in the chemical industry or to teach chemistry. It may be less obvious that a significant knowledge of chemistry is often required in professions such as biotechnology, hazardous waste management, art conservation, and forensic science. Chemistry related applications are to be found in almost every aspect of our lives. Space technology, finding solutions to environmental problems, developing new drugs and technologies for medicine, and designing new materials for molecular electronics and computing.

IGCSE Core and Extended

Grades Available: A* to G

| Paper | | Name of paper | Duration | Weighting (%) |
|-------|--------------|--------------------------|----------|---------------|
| 1 | Core | Multiple Choice | 45m | 30% |
| 3 | Core | Written answer | 1h 15m | 50% |
| 2 | Extended | Multiple Choice | 45m | 30% |
| 4 | Extended | Written answer | 1h 15m | 50% |
| 6 | All students | Alternative to Practical | 1h | 20% |

Topics covered include:

Experimental techniques. Particles, atomic structure, ionic bonding and the Periodic Table. Air and water. Acids, bases and salts. Reaction rates. Metals and the Reactivity Series. Covalent bonding. Organic. Amount of substance. Redox, electrochemistry and Group VII. Equilibria.

Computer Science

The aims of this course are to develop:

- A student's ability to think:
 - Algorithmically: to accurately follow and also design a set of instructions that executes a task
 - Computationally: to understand the main principles of how computers and other devices are designed and how they operate
 - Socially: to consider that effects of people of digital technologies
 - Forensically: to be able to solve problems in a logical fashion, frequently by using digital technologies and high-level coding
- An enjoyment of the thrill and satisfaction of success in problem-solving leading to a preparedness to face with confidence real-life problems that need solutions

IGCSE

| Paper | Name of Paper | Duration | Weighting (%) |
|-------|--|----------|---------------|
| 1 | Theory: written | 1h 45m | 60% |
| 2 | Problem-solving & Programming: written | 1h 45m | 40% |

Topics covered include:

Data representation, Communication and Internet technologies, Hardware and software, Security, Ethics, Algorithm design and problem-solving, Programming, Databases

Design and Technology

Resistant Materials

Design Technology aims to help students to

- Understand different systems of manufacturing,
- Use a range of creative thinking strategies and problem-solving processes
- Apply information about different inputs, people, society, environments and processes to accomplish a task.

Students will follow the IGCSE Design and Technology Resistant Materials syllabus. The course encourages students to think creatively to solve problems, use design language to evaluate problems and communicate solutions and then apply these skills to their own projects.

Design and Technology takes place in the drawing studio and workshop, blending creativity and practical skills. Throughout the course students' complete skills-based exercises working with a range of tools and materials to develop their practical abilities.

The course focuses on the design process with short projects leading to the major project which requires each student to solve a design problem based on a given context provided by a client. Students will present a complete and comprehensive design portfolio based around the following topics.

- Problem Identification
- Design Brief and Specifications
- Technical Research
- Idea generation and development
- Technical Drawing – Planning
- Prototype
- Evaluation

Students will have four terms in which to design and make their project.

IGCSE

Grades Available: A* to G

| Paper | Name of Paper | Style of Paper | Duration | Weighting (%) |
|---------|-------------------------|----------------|----------|---------------|
| 1 | Design | Design drawing | 1h 15m | 25% |
| 3 | Resistant Materials | Written | 1h | 25% |
| Project | School-based assessment | | 4 Terms | 50% |

Drama

This course is suitable for students who:

- Enjoy public speaking and performing in front of others
- Are motivated and creative
- Work well with others
- Are prepared to challenge themselves to try new things

The two-year programme aims to develop an understanding of drama through practical and theoretical study. Students will study and present dramatic texts and analyse how key dramatic elements can produce differing performances. They will create original dramatic material and reflect on its effectiveness through discussion and written responses.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------------|----------|---------------|
| 1 | Written Examination | 2h 30m | 40% |
| 2 | Coursework | - | 60% |

Topics covered include:

- Written Examination (sat in the May-June session) 40%
- The questions on this paper relate to pre-release material which is sent to Centres in advance of the examination. This material consists of three stimuli and an extended extract from a play (or an abridged version of an entire play). Candidates devise a piece of drama based on one of the three stimuli and study the extract from the play.
- The questions on the paper will require candidates to have engaged with the pre-release material from the perspective of actor, director and designer.
- Coursework 60%
- Candidates submit three pieces of practical work.
- One individual piece – one performance of an extract from a play
- Two group pieces – one performance of an extract from a play and one original devised piece.

All Coursework pieces must be performed for a live audience and filmed. Students taking IGCSE Drama are expected to attend the College Drama Assessment Evenings at the end of every term as part of their assessment.

Economics

Every day we are faced with decisions; spend or save? Plastic or Paper? National or Labour? Economics students consider everyday events through an economic lens; applying the tools and concepts that they learn to interpret events in terms of their causes and likely impacts on a personal, national and global perspective.

Economics is about choice. Individuals, businesses and governments are all faced with making choices in situations where resources are scarce. In studying Economics students will examine topics of obvious importance to human well-being such as globalisation, international relations, financial mechanisms, the role of price and money, as well as the social costs and benefits of our modern lifestyle.

Graduates with an Economics degree are highly sought after and may work in both public sector and private sector organisations such as: Banks, Investment companies, Accounting firms, Law firms, The Reserve Bank, Treasury, Ministry of Foreign Affairs & Trade, Department of Internal Affairs, Statistics NZ, Ministry of Business Innovation and Employment, NZ Trade and Enterprise, various international trade and development organisations, or in a university.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|----------------------|----------|---------------|
| 1 | Multiple Choice | 45m | 30% |
| 2 | Structured Questions | 2h 15m | 70% |

Topics covered include:

- Scarcity – The economic problem
- Resources – who gets them and why?
- Economic decision-making
- Government's role in the economy
- Changing global economies
- International Trade and globalisation

English (First Language)

This course is compulsory for all students apart from those taking English as a Second Language in Year 10.

The English (First Language) Syllabus will develop students' ability to communicate accurately, appropriately and effectively in speech and writing. Students will be encouraged to use relevant vocabulary, to employ correct grammar, spelling and punctuation, and to display a sense of style and audience.

The syllabus will help students understand and respond appropriately to what they see, hear and experience, and to enjoy the full variety of the English Language. In addition, it will complement their other studies by developing general skills such as the ability to analyse, synthesise, and make inferences, order facts and present opinions.

A study of English (First Language) will promote personal development and an understanding of self and others.

Students will sit the IGCSE English (First Language) examination at the end of Year 11.

IGCSE Extended

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|----------------------------------|----------|---------------|
| 1 | Reading | 2h | 50% |
| 2 | Directed writing and composition | 2h | 50% |

Students will also study the IGCSE Literature Course throughout Years 10 – 11.

These 2 courses complement each other and run concurrently.

English Literature

This course is compulsory for all students except those taking English (Second Language) and is taught concurrently with the English First Language Course.

Through the study of English Literature, students are encouraged to read, interpret and evaluate literary texts. They will develop an understanding of texts in terms of literal meaning, relevant contexts and deeper themes or attitudes.

They will learn to recognise and appreciate the ways in which writers use language to achieve their effects, and to communicate an informed personal response.

The study of literature allows students to explore areas of universal human concern, thus leading to a greater understanding of themselves and others.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|-------------------|----------|---------------|
| 1 | Poetry and Prose | 1hr 30m | 50% |
| 3 | Drama (Open Text) | 45m | 25% |
| 4 | Unseen | 1hr 15m | 25% |

Students will study a selection of texts from three sections: Drama, Prose and Poetry.

Environmental Management

Environmental Management is concerned with education for sustainable development in a world where the security of resources is endangered by human impact. It is wide-ranging in its scope and topical in its coverage. Environmental Management combines aspects of Biology, Earth Science, Geography, Economics and Anthropology. Environmental Management is concerned not only with the impact of humankind on the planet but also with the patterns of human behaviour necessary to preserve and manage the environment in a self-sustaining way.

Case studies enable students to obtain a local as well as a global perspective on some of the issues examined.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|--|-------------------------------|---------------|
| 1 | Theory | 1h 45m Externally assessed | 50% |
| | Section A: Short-answer and structured questions. (20 marks) Section B: Short-answer and extended response questions based on related source material. (60 marks) | | |
| 2 | Management in context A written paper consisting of short-answer, data processing and analysis, and extended response questions based on source material. (80 marks) | 1h 45m Externally assessed | 50% |

The syllabus is designed to emphasise that:

- Life on earth as we know it is an integrated and interdependent whole
- Its future is endangered by the impact of human development on natural resources
- Its survival for future generations will depend on concerted action to conserve and manage the environment as a self-sustaining resource base

The syllabus is divided into nine topics which have been designed to develop an understanding of both the natural and the human environment:

1. Rocks and minerals and their exploitation
2. Energy and the environment
3. Agriculture and the environment
4. Water and its management
5. Oceans and fisheries
6. Managing natural hazards
7. The atmosphere and human activities
8. Human population
9. Natural ecosystems and human activities

Each topic has bullet points for each learning objective and success criteria. Case studies are used to demonstrate real-world examples. Environmental management at Pinehurst is a science course. It may be chosen as a student's only science subject or taken alongside Biology, Chemistry or Physics. Environmental Management complements Geography and the study of both can be mutually beneficial.

Geography

Geography studies the inter-relationships between humans and their physical environment. So much more than knowing where countries and their capital cities are, geography is part of our everyday lives.

Examples of geographers in the workplace might be to work as geologists, environmental managers and engineers to make decisions about hazard evacuation, placement of new settlements, roads and coastal engineering.

A new frontier in geography called GIS (Geographic Information Systems) gathers spatial data and inputs it into a computer to create map layers revealing patterns and relationships.

Physical geographers research climates, landforms and plant and animal distributions. Human geographers aim to understand communities and cultures.

Geography at IGCSE level has a broad base which fits any choice of academic programme and at the same time allows students to keep their options open for further study at advanced levels. It teaches a wide variety of skills allowing students to combine geography with a number of University degrees including Arts, Law, Business, Engineering, Geology and Environmental Science.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|----------------------------|----------|---------------|
| 1 | Structured topic questions | 1h 45m | 45% |
| 2 | Geographic Skills | 1h 30m | 27.5% |
| 4 | Fieldwork Skills | 1h 30m | 27.5% |

Topics covered include:

- Population and Settlement
- The Natural Environment
- Economic Development and the Use of Resources

Case studies, practical work and fieldwork are used to illustrate and develop topics.

Global Citizenship

The Pinehurst Global Citizenship programme is compulsory for all Year 10 and 11 students and is taught for 2 periods per week. It helps students to broaden their learning experience outside their core subjects. Global Citizenship, along with the supporting Global Perspectives component, is important because we live in an increasingly global community. As a result, students must prepare to work in a world that is diverse - in its people, cultures and thought.

For approximately half of the time, the students will be following the Cambridge IGCSE Global Perspectives curriculum, with the expectation that the students enter this as an IGCSE qualification at the end of Year 11 if their coursework is of an acceptable standard. Students research a range of global issues of their own choice, explored from a personal, national and global perspective. Tertiary institutions, Employment Recruitment agencies and employers are looking for people who have developed critical thinking skills and reasoning, who are self-motivated, can work independently and as a team, can problem solve, develop empathy, and have excellent time management and communication skills. Global Perspectives develops these skills.

The other half of the course will be taught in a modular style and includes units such as Cyber-Citizenship, Health and Well-Being, Self-Awareness, Career Education, Sustainability, Cultural Awareness and Stereotypes, Human Rights, Law and Government.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|--|---|---------------|
| 1 | Written Examination Candidates answer four compulsory questions based on a range of sources provided with the paper | External 1h 15m | 35% |
| 2 | Individual Report Candidates research one topic area (from a choice of eight) and discuss personal, national and global perspectives, submitting one report based on their research (1700 – 2000 words) | Coursework Internally set and externally marked | 30% |
| 3 | Team Project Candidates devise and develop a collaborative project into one aspect of a topic and produce one Outcome (Slideshow Presentation) exploring different cultural perspectives and a Personal element (reflective evaluation on their research, contribution and personal learning 750 – 1000 words) | Coursework Internally set and externally moderated | 35% |

History

The last time “Democracy” almost died was in the late 1930’s. Today we are seeing the decline of the world’s strongest democracy, the United States of America. This course will provide the opportunity of studying some of the major international issues of the twentieth century and to understand how your personal freedom may one day be controlled by others.

The Syllabus will promote an understanding of historical cause and consequence, based on an appreciation of the use of historical evidence. The Syllabus aims to stimulate students’ interest in and enthusiasm about the past, and to provide a sound basis for further study and the pursuit of personal interests.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|----------------------------|------------|---------------|
| 1 | Short and long answers | 2h | 40% |
| 2 | Source based short answers | 2h | 33% |
| 3 | Coursework | Class time | 27% |

Topics covered include:

Students will study 20th Century history together with an in-depth study.

- 20th Century** – *The Great War* of 1914-8 ended with the vow it must never happen again. But within 20 years an even greater war erupted. This syllabus investigates the reason why the world went from peace and prosperity into *The Second World War* and the development of *nuclear weapons*. We look at unfair *Peace Treaties*, the totally inept *League of Nations*, the drift to *World War* and the rise of numerous *dictatorships* and the *cult of personality*. Once the Second World War was over, a more intense and dangerous period developed. Termed “*The Cold War*”, nuclear annihilation became a daily reality. The “*Democratic World*” came to be at odds with the “*Communist Bloc*”. The United States tried but failed to stop the spread of Soviet and Chinese Communism. Eventually the *mutual fear of nuclear war* brought the world’s leaders to take a step back from the brink of self-destruction.
- In-Depth Study – Germany 1918-45**–Germany was blamed for starting the *Great War* and their punishment was to pay the largest amount the world had ever seen. Germany could not hope to pay these reparations and resulted in political and economic upheaval. The German public unwittingly came to support a strong man named *Adolf Hitler* and his *Nazi Party*. Eventually Hitler’s democratic pretence turned into a twelve-year ruinous dictatorship that rounded up and exterminated over 11 million people considered sub-human. We look at the development of *concentration* and *extermination camps*, the breeding of the *Aryan race* and the bombing of civilians in cities. This topic is applicable in understanding the decline of democracy today and how the western world may be changed forever.

Mandarin Chinese

This course is designed for:

- Second Language Mandarin Speakers who have satisfactorily completed Year 9 mandarin.
- Enjoy working with language
- Are prepared to make a regular commitment to learning new vocabulary

The Mandarin Chinese course aims to:

- Develop the ability to use a foreign language as a means of practical communication
- Offer insights into the culture and civilisation of countries where the language is spoken
- Encourage a positive attitude towards language learning, towards the speakers of other languages and towards other cultures and civilisations
- Complement techniques which can be applied to other areas of learning, such as analysis and memory skills

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------|----------|---------------|
| 1 | Listening | 35m | 25% |
| 2 | Reading | 1h 15m | 25% |
| 3 | Speaking | 15m | 25% |
| 4 | Writing | 1h 15m | 25% |

Topics covered include:

Everyday Activities, Personal and Social Life, The World Around Us, The World of Work, The International World.

The Mandarin examination is taken within the CAIE May / June examination session.

Chinese as a Second Language

This course is designed for those who:

- Speak Mandarin regularly in their community
- Are prepared to make regular commitment to reading Chinese in various text types

The Chinese as a Second Language course aims to:

- Develop the ability to use Chinese effectively for the purpose of practical communication
- Form a sound foundation for the skills required for further study or employment using Chinese as the medium
- Develop an awareness of the nature of language and language-learning skills

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------------|----------|---------------|
| 1 | Reading and Writing | 2h | 60% |
| 2 | Listening | 45m | 20% |
| 3 | Speaking | 15m | 20% |

Topics Covered include:

Young People and Education, Society, The World, Cultural Diversity

The examination is taken within the CAIE May / June examination session.

Mathematics

Mathematics is a compulsory subject for all Year 10 and 11 students. All students intending to enter New Zealand Universities will be required to obtain a Grade D or higher in IGCSE Mathematics.

Students will be encouraged to develop their mathematical knowledge and skills in a way which encourages confidence and provides satisfaction and enjoyment.

They will develop a feel for numbers, and for patterns and relationships in Mathematics. There will be an emphasis on solving problems and presenting and interpreting results. Students will be encouraged to communicate clearly and reason logically using mathematical concepts.

The Mathematics Syllabus aims to encourage students to make use of Mathematics in other subjects, and to provide a firm foundation for the further study of Mathematics and other disciplines.

IGCSE Core and Extended

Grades Available: A* to G

| Paper | | Name of paper | Duration | Weighting (%) |
|-------|----------|------------------------|----------|---------------|
| 1 | Core | Short Answer questions | 1h | 35% |
| 3 | Core | Structured questions | 2h | 65% |
| 2 | Extended | Short Answer questions | 1h 30m | 35% |
| 4 | Extended | Structured questions | 2h 30m | 65% |

Note: a grade D or better satisfies the minimum numeracy requirement to enter NZ Universities.

Topics covered include:

- Number
- Algebra
- Geometry and Trigonometry
- Measurement

Music

Pre-Requisites:

- This course is open to and suitable for all students as long as they begin or continue to have individual lessons on their chosen instrument or voice
- The course is divided into 3 sections: Performance, Composing & Listening
- Students must be prepared to perform solo pieces on a regular basis and take part in group ensemble pieces in class. There are opportunities to perform to a wider audience at termly concerts
- Students must be prepared to compose two pieces either contrasting in character or written for different groups of instruments
- The listening component includes Western classical and World music

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------|----------|---------------|
| 1 | Listening | 1h 15m | 40% |
| 2 | Performing | - | 30% |
| 3 | Composing | - | 30% |

Topics covered include:

- **Unprepared Listening**

Students will be expected to comment intelligently on the characteristics of a wide variety of music including Pop, Classical and World music. They will be taught techniques for recognising structure, instruments, styles, and timbre and will learn the appropriate vocabulary to describe music they hear.

- **Prepared Listening**

Students will learn to read an orchestral score and to analyse one substantial Classical work. There will also be one prescribed focus on World Music where the music of a particular country will be studied.

- **Performance**

Students will prepare and perform between 4 and 10 minutes of music on their chosen instrument/s.

They are to perform 1 solo piece or 2 short solo pieces. In addition, they perform 1 or 2 ensemble pieces in which their part is not doubled by another player. Provision is made for improvisation.

- **Composition**

Students will follow a music theory course and learn to use Sibelius music software. They will compose two pieces, at least one of which must use Western notation.

This is a two year course with students sitting the written examinations during the October examination session. Performances and compositions are internally assessed by the Director of Music, then CD recordings and the printed music are sent to Cambridge for moderation in October.

Physical Education

The Physical Education Syllabus provides candidates with an opportunity to study both the practical and theoretical aspects of the subject. It is designed to promote enjoyment in physical activity and the knowledge gained should enable students to develop an understanding of effective and safe physical performance.

Throughout the course students should be encouraged to improve their ability to plan, perform, analyse and evaluate physical activities. Their knowledge, skills and understanding of a number of physical activities selected from a wide range of categories should develop throughout the course.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|-----------------------------------|----------|---------------|
| 1 | Short-answer/Structured Questions | 1h 45m | 50% |
| 2 | Coursework | - | 50% |

Topics covered include:

Health, fitness and well-being. Anatomy and physiology. Social, cultural and ethical influences. Skill acquisition and psychology.

The Course Work assesses a candidate's physical performance, including an ability to interrelate planning, performing and evaluating whilst undertaking activity and the ability to analyse and improve their own and others. Performances in four practical activities are assessed, this being worth 50% of the final grade.

The four practical activities must be chosen from a minimum of two of the seven categories outlined: Games, Gymnastic Activities, Dance, Athletic Activities, Swimming, Outdoor and Adventurous Activities and Combat Activities

Physics

Physics is the study of how the world behaves and how the laws of nature operate. The subject looks at how things work and the principles and laws that predict their behaviour. This can range from the large scale of the Earth and the Universe to the small scale of the nucleus of an atom. If you enjoy taking things apart, have an inquisitive mind, and like to know what is going on, you will find this subject interesting.

Physicists play a vital role in the development of many new technologies, and the laws of physics find application in almost every branch of science, engineering and technology. For example, the pumping action of the heart, the speed of switching circuits in a computer, the stresses acting on a bridge, are all subject to the laws of physics. In order to make significant advances in any branch of science it is necessary to have a thorough grasp of these basic principles.

The study of motion is an important part of the course. You learn about how things move, how to measure speed and acceleration, how objects fall, what friction means, and what constraints conservation of energy and momentum can put on a system. Another important topic is electricity and students will learn how to build electric circuits.

Physics is a practical subject and students will develop their experimental skills throughout the course. Accurate measurement is very important in the development of any science, and this is particularly true of physics. Students will learn how to take measurements using a wide range of scientific apparatus including data logging with computers. The data is then analysed using graphical techniques in order to investigate whether it fits a pattern or hypothesis.

Physics is the most mathematical of the science subjects and the course will develop students' problem solving ability.

IGCSE Core and Extended

Grades Available: A* to G

| Paper | | Name of paper | Duration | Weighting (%) |
|-------|--------------|-----------------|----------|---------------|
| 1 | Core | Multiple Choice | 45m | 30% |
| 3 | Core | Written answer | 1h 15m | 50% |
| 2 | Extended | Multiple Choice | 45m | 30% |
| 4 | Extended | Written answer | 1h 15m | 50% |
| 5 | All students | Practical | 1h15m | 20% |

Topics covered include:

Light. Electricity. Energy. Mechanics. Electromagnetism. Thermal physics. Waves. Atomic physics. Electronics.

Spanish

This course is designed for:

- Students who have satisfactorily completed Year 9 Spanish
- Enjoy working with language
- Are prepared to make a regular commitment to learning new vocabulary

The Spanish Course aims to:

- Develop the ability to use the language effectively for purposes of practical communication within the country of residence, where appropriate, and in all the countries where the language is spoken
- Form a sound base of the skills, language and attitudes required for further study, work and leisure
- Offer insights into the culture and civilisation of the countries where the language is spoken (this may include literature where appropriate)
- Encourage positive attitudes toward foreign language learning and towards speakers of foreign languages, and a sympathetic approach to other cultures and civilisations

The course introduces students to more of the grammar and structure of Spanish and has a prescribed core vocabulary list.

IGCSE

Grades Available: A* to G

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------|----------|---------------|
| 1 | Listening | 45m | 25% |
| 2 | Reading | 1h | 25% |
| 3 | Speaking | 15m | 25% |
| 4 | Writing | 1h | 25% |

Topics covered include:

Everyday Activities, Personal and Social Life, The World Around Us, The World of Work, The International World.

YEARS 12 & 13

Cambridge International Examinations

- AS - Advanced Subsidiary
- A - Advanced Level

In Year 12 students study 4 or 5 AS Level subjects.

All students must take AS English Language or AS English Literature.

The following subjects are offered at AS level

- | | | |
|--------------------------|----------------------------|----------------------------------|
| • Accounting | • Drama | • Global Perspectives & Research |
| • Art & Design | • Economics | • History |
| • Biology | • Environmental Management | • Mathematics |
| • Business Studies | • English Language | • Music |
| • Chemistry | • English Literature | • Physical Education |
| • Classical Studies | • Further Mathematics | • Physics |
| • Computer Science | • Geography | • Psychology |
| • Design Technology | | • Spanish |
| • Digital Media & Design | | |

All AS subjects are completed in one year. The examinations are held in October/ November. In Year 13 students then have the option, if successful at AS level, of continuing their studies at A2 level.

In 2022 the following subjects are offered at A2 level:

- | | | |
|---------------------|----------------------------------|----------------------|
| • Accounting | • Digital Media & Design | • History |
| • Art & Design | • Drama | • Mathematics |
| • Biology | • Economics | • Music |
| • Business Studies | • English Language | • Physical Education |
| • Chemistry | • English Literature | • Physics |
| • Classical Studies | • Geography | • Psychology |
| • Computer Science | • Global Perspectives & Research | • Spanish |
| • Design Technology | | |

In Year 13 students select 4 subjects.

A Year 13 student may end up studying a combination of AS and A2 level subjects.

Pre-Requisites for AS level courses

In order to study some AS level subjects, students will be required to achieve a prerequisite standard at IGCSE level. This will normally be a grade C at IGCSE level. For more information on individual subject pre-requisites refer to the subject details in this booklet.

AS English Language or AS English Literature is compulsory for all Year 12 students.

After choosing a language option Year 12 students are to select 3 or 4 additional courses and will spend 6 periods per week on each of these.

Year 13 students are to select 4 or 5 courses from the subjects offered in this prospectus and will spend 6 periods per week on each of these.

Where appropriate, Year 12 and 13 students may supplement their programme of study by choosing IGCSE subjects that complement their timetable.

Pinehurst students study 4 or 5 AS Level subjects in Year 12, with AS examinations in November. Students may then specialise in 4 or 5 full A Level subjects in Year 13. Having said that, they may also select to study a variety of different AS subjects rather than doing the full A Level. The nature of the A/AS Level programmes allows plenty of flexibility over the two years for students to study a variety of AS and A Level combinations.

AS and A Levels from Cambridge International Examinations are well established, internationally recognised examinations. AS and A Levels are accepted at all New Zealand universities. They are also accepted by universities around the world, including Australia, the USA and Europe. Students considering undertaking their first year at university overseas would be advised to complete at least 3-4 full A Levels in Year 13.

University Entrance

Students who successfully pass their AS and A level courses achieve points, these points referred to as UCAS points, then allow the student to access university courses.

UCAS points are allocated as follows:

| Percentage Range | AS Level | | A Level | |
|------------------|----------|--------|---------|--------|
| | Grade | Points | Grade | Points |
| 90 - 100 | A | 60 | A* | 140 |
| 80 - 90 | A | 60 | A | 120 |
| 70 - 79 | B | 50 | B | 100 |
| 60 - 69 | C | 40 | C | 80 |
| 50 - 59 | D | 30 | D | 60 |
| 40 - 49 | E | 20 | E | 40 |

To gain University Entrance in New Zealand, students are required to obtain a minimum of 120 UCAS points with at least 3 subjects having a D grade or better over 6 AS subjects, 3 A level subjects or a combination of AS and A2 subjects. The student is also required to have a minimum literacy requirement of E in AS English Language or English Literature and a minimum numeracy requirement of D in IGCSE Mathematics.

Please note - These are minimum requirements for entry and for the student to gain guaranteed entry to a specific course in many universities they will require considerably more UCAS points than 120. Many courses now also require certain grade level achievement in specific subject areas at AS or A level.

The need to check the implications of making subject choices for future study plans is increasingly important. It is imperative that students see University websites or the Careers Advisor for exact details before finalising their subject choices.

Accounting

Advanced Subsidiary Level – 1 Year Course

Accounting is not all about spread-sheets. Accountants today are branching out into careers as exciting as forensic accounting and stockbroking. They end up as CEOs and CFOs, business advisers, financial analysts and leaders in the world of Corporate Finance. Accounting prepares you for a degree in Commerce, in general and the Accounting profession, in particular. As a profession, Accounting will enable you to work in any industry and live the life you want to live.

Money is the engine that drives business - money is the language of business. Accounting will teach you how to use that language to make important business decisions as it provides a system by which the monetary value of transactions, both business and individual, is measured.

'Professionals in accounting and finance hold some of the best and most influential positions in New Zealand and throughout the world. They are earning great money, shaping businesses worldwide and redefining what it means to be an accountant'. NZICA booklet.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|----------------------|----------|---------------|
| 1 | Multiple Choice | 1h | 30% |
| 2 | Structured Questions | 1h 30m | 70% |

Advanced Level – 1 Year Course

Pre-Requisites - Students must have completed AS Accounting to the satisfaction of the Head of Department – Commerce.

Candidates for A Level Accounting are required to enter for Papers 1, 2, and 3. Papers 1 and 2 are normally taken as part of the AS programme, with Paper 3 taken as part of the A2 programme.

| Paper | Name of paper | Duration | Weighting (%) |
|---|----------------------|----------|---------------|
| Your Accounting AS Level Mark carried forward | | | 50% |
| 3 | Structured Questions | 3h | 50% |

The programme follows a similar pattern to AS Accounting with further extension in all the topics. In addition, the following topics are covered: Standard and Process Costing, Budgeting, Investment Appraisal, Cash flow Statements and Business Purchase.

Art and Design

Painting, Design, Textiles, Sculpture and Other Related Media

Advanced Subsidiary Level – 1 Year Course

This course has been updated and re-designed for candidates to explore a wider range of media and become more experimental. Students will develop a practical, expressive and imaginative approach to working; producing Art influenced by the wider world.

Students will be introduced to relevant, new and exciting artists who will broaden and deepen students' style, skills and ideas. This will allow students to emulate works with an expansive and sensitive understanding of Art and how it is made.

Students will be using essential skills needed in strong observational works and become refined in the use of materials and processes. Influences will be drawn from a topical theme that will evoke a personal, emotional response and frame an authentic visual breadth of study.

Candidates can produce work in a variety of formats such as canvases, installation pieces, sculpture, mural Art and other relative media including photographic work. Students can combine these areas of study and use with related materials.

Candidates for AS Level Art and Design are required to enter for Components 1 and 2.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|-----------------|----------|---------------|
| 1 | Coursework | - | 50% |
| 2 | Controlled Test | 15h | 50% |

Component 1 is Coursework which will be externally assessed by Cambridge University.

Component 2 is a controlled test externally assessed by Cambridge University.

Advanced Level 1 Year Course

Pre-Requisites – Students must have completed the course in AS Art and Design.

Candidates for A Level Art and Design are required to enter for Components 1,2 and 3. Components 1 and 2 from the AS programme will be submitted with Component 3 as part of the A2 programme.

| Paper | Name of paper | Duration | Weighting (%) |
|---|---------------|----------|---------------|
| Your Art and Design AS Level Mark carried forward | | | 50% |
| 3 | Coursework | - | 50% |

Candidates will continue to build upon their Personal Investigation, demonstrating a more refined and in-depth approach in process and outcome. Students will also undertake a written analysis with a maximum of 1,500 words.

Component 3 is Coursework: The Personal Investigation which is in two parts, the practical work and written analysis, this will be externally assessed by Cambridge University.

Biology

Advanced Subsidiary Level – 1 Year Course

Pre-Requisites

Students must have achieved a C Grade or higher in IGCSE Biology or have permission from the Head of Department – Sciences.

Biology is an experimental science concerned with the way nature works. An A level in Biology provides an excellent qualification for a wide career choice within science, industry or commerce. A Biology student is numerate, analytical, and practical and has good problem solving, presentation and communication skills. A qualification in Biology offers many opportunities which include veterinary sciences, marine biology, ecology, nursing, biochemistry, research biology, forensic science, pharmaceutical industries, physical education, product testing, health and medicine, biotechnology, wine-making.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|--------------------------|----------|---------------|
| 1 | Multiple Choice | 1h | 31% |
| 2 | Structured Questions | 1h 15m | 46% |
| 3 | Advance Practical Skills | 2h | 23% |

Topics covered include:

Biological molecules. Cells as the basic units of life. DNA and the mitotic cell cycle. Transport and gas exchange. Disease and protection against disease.

Advanced Level – 1 Year Course

Candidates for A Level Biology are required to complete the AS Biology course within 1 year then complete the A2 components of the course within the following year.

| Paper | Name of paper | Duration | Weighting (%) |
|--|-----------------------------------|----------|---------------|
| Your Biology AS Level Mark carried forward | | | 50% |
| 4 | Structured Questions | 2h | 38.5% |
| 5 | Planning, Analysis and Evaluation | 1h 15m | 11.5% |

The programme follows a similar pattern to AS Biology with further extension in all the AS Biology topics and the following new topics:

The diversity of life. Genetics, population genetics and evolutionary processes. Molecular biology and gene technology. Respiration. Mammalian physiology, control and coordination. Plant physiology and biochemistry.

Pre-Requisites

Students must have completed AS Biology to the satisfaction of the Head of Department – Sciences.

Business Studies

Advanced Subsidiary Level – 1 Year Course

The aims of the Business Studies course is to understand and appreciate the nature and scope of business, and its role in society; to develop critical understanding of organisations, the markets they serve and the process of adding value; to be aware that business behaviour can be studied from a range of stakeholders including customer, manager, creditor, owner/shareholder and employee; to be aware of the economic, environmental, ethical, governmental, legal, social and technological issues associated with business activity and to develop skills in decision making and problem solving. It is hoped that the Business Studies course will prepare students to meet the world of work with confidence and awareness.

Careers in business are wide ranging. No matter which pathway students choose in the future, they will likely be working in an organisational context and able to apply concepts and analytical skills that they learn in this course. Specifically, Business Studies can lead to professions such as business owner, human resources management, property development, finance management, business analyst, general management, operations management, marketing, and advertising.

Candidates for AS Level Business Studies are required to enter for Papers 1 and 2. These papers are sat in November of the first year of the programme.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------|----------|---------------|
| 1 | Short Answer | 1h 15m | 20% |
| | Essay | | 20% |
| 2 | Data Response | 1h 30m | 60% |

Topics covered include:

Business and the environment, people in organisations, marketing, operations management, business finance, business accounting and information for decision making.

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS Business Studies.

| Paper | Name of paper | Duration | Weighting (%) |
|---|---------------|----------|---------------|
| Your Business Studies AS Level Mark carried forward | | | 50% |
| 3 | Case Study | 3h | 50% |

This course includes extension material in all of the topics covered in the AS material, as well as an additional topic – Strategic Management.

Chemistry

Advanced Subsidiary Level – 1 Year Course

Pre-Requisites

Students must have achieved a C Grade or higher in IGCSE Chemistry or have permission from the Head of Department – Sciences.

Chemistry is an experimental science concerned with the way nature works at the atomic and molecular level. An A level in Chemistry provides an excellent qualification for a wide career choice within science, industry or commerce. A Chemistry student is numerate, analytical, and practical and has good problem solving, presentation and communication skills. Medical students require a solid foundation of chemistry. A qualification in chemistry offers many opportunities which include veterinary sciences, research chemistry, forensic science, pharmaceutical industries, product testing, health and medicine.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------------------|----------|---------------|
| 1 | Multiple Choice | 1h | 31% |
| 2 | Structured Questions | 1h 15m | 46% |
| 3 | Advanced Practical Skills | 2h | 23% |

Topics covered include:

Particles. Bonding and structure. Controlling reactions 1. Organic chemistry 1. Chemical trends.

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS Chemistry.

| Paper | Name of paper | Duration | Weighting (%) |
|--|-----------------------------------|----------|---------------|
| Your Chemistry AS Level Mark carried forward | | | 50% |
| 4 | A2 Structured Questions | 1h 45m | 38.5% |
| 5 | Planning, Analysis and Evaluation | 1h 15m | 11.5% |

The programme follows a similar pattern to AS Chemistry with further extension in all the topics. Acids and bases. Electricity and metals. Controlling reactions 2. Organic chemistry 2. Analysis.

Classical Studies

Advanced Subsidiary Level – 1 Year Course

Only two topics are taught each year. We begin with the colourful stories of the **Olympic Gods**, larger than life **warrior heroes** like **Achilles and Hector** fighting for **Helen of Troy**. We cover the journey of **Odysseus** and “*the super-natural monsters*” he fought on his way home. We learn about the genius of **Alexander the Great** who led a small army of hard men on the road to avenge and to conquer the ancient nation of Persia. We learn about conspiracy theories and follow the 18-year-old son of **Julius Caesar** on his bloody path of revenge, to the death of party-loving **Marc Antony** and the most flamboyant Queen the world had ever seen, **Cleopatra of Egypt**. You will learn about the most bizarre “*moral and sexual degeneration*” of Roman society and their love for “*bloody gladiatorial competitions*”. You will ask yourself the question why did the USA adopt a Roman form of government if it was so violent? All these stories have direct relevance to the your life in modern world.

| Paper | Name of paper | Duration | Raw mark | Weighting (%) | Type of Assessment |
|-------|--|----------|----------|---------------|--------------------|
| 1 | Greek Civilisation - Alexander the Great and his new world order | 1h 30m | 50 | 50% | Written paper |
| 2 | Roman Civilisation – Emperor Augustus/ Cleopatra. Mark Antony | 1h 30m | 50 | 50% | Written paper |

Advanced Level – 1 Year Course

The story of two cities **Athens and Sparta**-a war of unprecedented death and destruction that still impacts upon the world today. The capture of slaves and the rich silver mines, to the utter destruction of cities and their entire populations killed or enslaved all under the guise of “*freedom loving Athenians*”. Why did the **300 soldiers** from **Sparta** refuse to retreat from battle while facing 250,000 Persians? How did the city of Athens go from her “*Golden Age of democracy, art, architecture and science*” to being defeated and losing everything? Detailed study of the great “**Epics**”; stories from Homeric Troy and the heroes who fought and died there. **Odysseus’s** and **Aeneas’s** long ten year journey dealing with supernatural monsters and the role of **Greek and Roman Gods** in **mythology**.

| Paper | Name of paper | Duration | Raw mark | Weighting (%) | Type of Assessment |
|--|---|----------|----------|---------------|--------------------|
| Your Classical Studies AS Level Mark carried forward | | | | 50% | |
| 3 | Athens and Sparta- Friends and Enemies | 1h 30m | 50 | 25% | Written paper |
| 4 | Greek and Roman Gods and Heroes | 1h 30m | 50 | 25% | Written paper |

Computer Science

The aims of this course are to develop:

- A student's ability to think:
 - Algorithmically: to accurately follow and also design a set of instructions that executes a task
 - Computationally: to understand the main principles of how computers and other devices are designed and how they operate
 - Socially: to consider that effects of people of digital technologies
 - Forensically: to be able to solve problems in a logical fashion, frequently by using digital technologies and high-level coding
- An enjoyment of the thrill and satisfaction of success in problem-solving leading to a preparedness to face with confidence real-life problems that need solutions

Advanced Subsidiary Level - 1 Year Course

Computer science is the study of the foundational principles and practices of computation and computational thinking and their application in the design and development of computer systems.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---|----------|---------------|
| 1 | Theory fundamentals: written | 1h 30m | 50% |
| 2 | Problem-solving & Programming Skills: written | 2h | 50% |

Topics covered include: Information representation, Communication and Internet technologies, Hardware, Processor fundamentals, System software, Security, privacy and data integrity, Ethics & ownership, Database and data modelling, Algorithm design and problem-solving, Data representation, Programming, Software development.

Advanced Level – 1 Year Course

Cambridge International A Level Computer Science provides a suitable foundation for the study of computer science or related courses in higher education. The programme follows a similar pattern to the AS Level course with practical aspects that are examined via a written paper.

| Paper | Name of paper | Duration | Weighting (%) |
|---|---|----------|---------------|
| Your Computer Science AS Level Mark carried forward | | | 50% |
| 3 | Advanced Theory: written | 1h 30m | 25% |
| 4 | Further Problem-solving and Programming Skills: written | 2h | 25% |

Note: the content of the A Level syllabus also contains the material covered in the AS Level course.

Topics covered include: Data representation, Communications and Internet technologies, Hardware, System software, security, Monitoring and control systems, Computational thinking and problem-solving, Algorithm design methods, Further programming, Software development.

Design and Technology

Product Design

Design Technology aims to help students to:

- understand different systems of manufacturing,
- use a range of creative thinking strategies and problem solving processes
- and apply information about different inputs, people, society, environments and processes to accomplish a task.

Advanced Subsidiary Level – 1 Year Course

Candidates for AS Level Design and Technology are required to enter for Components 1 and 2. In the first year of the programme Component 1 is sat in November, Component 2 is submitted in September.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------|-----------|---------------|
| 1 | Written | 3h | 60% |
| 2 | Project | 40h - 50h | 40% |

Component 1 is a written examination testing material, processing knowledge and product analysis.

Component 2 focuses on design processes and practical work and will allow a student to investigate and develop specialist areas of interest through a Coursework project.

Students will be expected to identify a problem of their own, then, using the design process, develop and construct a realistic solution to the problem.

Advanced Level – 1 Year Course

Pre-Requisites

Students must have completed component 1 and 2 of the AS Design and Technology: Product Design.

| Paper | Name of paper | Duration | Weighting (%) |
|--|---------------|-----------|---------------|
| Your Design and Technology AS Level Mark carried forward | | | 50% |
| 3 | Written | 3h | 30% |
| 4 | Project | 40h - 50h | 20% |

Component 3 is a written examination which will test design and development processes, materials knowledge and manufacturing understanding in the focus area of Product Design.

Component 4 can either be the prototype development of the project for Component 2 or a new project covering Components 2 and 4 in a holistic way. The outcome of this component will be a product produced using the most appropriate methods and materials.

Digital Media and Design (Course A)

Digital Imagery, Photography, Visual Effects and Photo Manipulation

Advanced Subsidiary Level – 1 Year Course

Candidates for AS Level Art and Design Digital Media (Course A) are required to enter for Components 1 and 2.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|-----------------|----------|---------------|
| 1 | Portfolio | - | 50% |
| 2 | Controlled Test | 10h | 50% |

This is a brand-new exciting course that has been designed to encompass the ever wider-reaching arch of Digital Media and Design. Candidates will be exposed to new concepts in making Art in a creative digital format, this will include using new software, equipment and technology practices. Students will develop the skills and knowledge needed to work in a variety of experimental ways as well as more traditional methods of Digital Photography.

Students will experience studio photography, learn to edit work using Adobe Photoshop and create exciting visual effects like cinemagraphs and animated still images in After Effects. This will give students the ability to work towards generating their digital portfolio and proposal which will develop ideas based around concepts and a brief.

Candidates will gain influence from different styles and genres of Digital Media and new emerging artists and techniques.

Component 1 is Coursework which will be externally assessed by Cambridge University.

Component 2 is a controlled test externally assessed by Cambridge University.

Advanced Level – 1 Year Course

Pre-requisites

Students must have completed AS Art and Design Digital Media (Course A).

Candidates for A Level Art and Design Digital Media (Course A) are required to enter for Components 1, 2 and 3.

Components 1 and 2 are normally submitted as part of the AS programme, along with Component 3 it is all submitted as part of the A2 programme.

| Paper | Name of paper | Duration | Weighting (%) |
|---|------------------------|----------|---------------|
| Your Digital Media and Design AS Level Mark carried forward | | | 50% |
| 3 | Personal Investigation | - | 50% |

Candidates will research a topic or theme and produce a final practical outcome with a written analysis of 1000-1500 words.

Component 3 is a Personal Investigation, with a written analysis which will be externally assessed by Cambridge University.

Digital Media and Design (Course B)

Animation, Digital Imagery, Video and Visual Effects

Advanced Subsidiary Level – 1 Year Course

Candidates for AS Level Art and Design Digital Media (Course B) are required to enter for Components 1 and 2. These Components are submitted towards the end of the year.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|-----------------|----------|---------------|
| 1 | Portfolio | - | 50% |
| 2 | Controlled Test | 10h | 50% |

This is a brand-new exciting course that has been designed to encompass the ever wider-reaching arch of Digital Media and Art. Candidates will be exposed to new concepts in making Art in a creative digital format, this will include using new software, equipment and technology practices. Students will develop the skills and knowledge needed to work in a variety of experimental ways as well as more traditional methods of animation and video.

Students will experience studio photography, learn to edit work using Adobe Photoshop, After Effects, Adobe Premiere, and Adobe Illustrator to create exciting videos and animations, set and character design. This will give students the ability to work towards generating their digital portfolio and proposal which will develop ideas based around concepts and a brief.

Candidates will gain influence from different styles and genres of Digital Media and new emerging artists, directors and techniques.

Component 1 is Coursework which will be externally assessed by Cambridge University.

Component 2 is a controlled test externally assessed by Cambridge University.

Advanced Level – 1 Year Course

Pre-requisites

Students must have completed AS Art and Design Digital Media (Course B).

Candidates for A Level Art and Design Digital Media (Course B) are required to enter for Components 1, 2 and 3.

Components 1 and 2 are submitted as part of the AS programme, along with Component 3 it is all submitted as part of the A2 programme.

| Paper | Name of paper | Duration | Weighting (%) |
|---|------------------------|----------|---------------|
| Your Digital Media and Design AS Level Mark carried forward | | | 50% |
| 3 | Personal Investigation | - | 50% |

Candidates will research a topic or theme and produce a final practical outcome with a written analysis of 1000-1500 words. Component 3 is a Personal Investigation, with a written analysis which will be externally assessed by Cambridge University.

Drama

Advanced Subsidiary Level – 1 Year Course

This course will suit students who:

- Have satisfactorily completed IGCSE Drama; or
- Have significant dramatic or stage experience; and who can
- Demonstrate their dramatic knowledge, both in performance and in writing

All candidates take Paper 1 (Coursework) and Paper 2 (Written Examination).

| Paper | Name of paper | Duration | Weighting (%) |
|-------|-----------------------------|-----------|---------------|
| 1A | Coursework – Scripted Drama | 45m | 30% |
| 1B | Coursework – Devised Drama | 30m - 45m | 30% |
| 2 | Written Examination | 1h 45m | 40% |

The programme aims to develop an understanding of drama through practical and theoretical study. Students will study dramatic texts and demonstrate how key dramatic elements can produce differing performances.

Topics cover, could include; Comedy of manners, New Zealand Theatre, Greek Theatre, Shakespearean Dramas, Political Theatre, British Contemporary Drama and Theatre

Advanced Level – 1 Year Course

Students who wish to do A Level Drama, need to complete the AS level course first.

At A Level, students focus on three key areas:

- Theatre-making and performance through the process of devising and presenting a piece inspired by a selected practitioner or tradition or style
- Structuring individual performance work from materials on a chosen theme selected and linked by the student
- Exploration of and research into performance texts, practitioners, styles, and genres.

| Paper | Name of paper | Duration | Weighting (%) |
|--|---|---------------------------------|---------------|
| Your Drama AS Level Mark carried forward | | | 50% |
| 3 | Theatre-making and performing; Group devised performance, Analysis and evaluation essay, Individual performance | 15-20min 800 words 6-8min | 25% |
| 4 | Theatre in context; Research essay | 2500-3000 words | 25% |

All Coursework pieces, for both AS and A Level, must be performed for a live audience and filmed. These assessments will usually take place during the College Drama Evenings at the end of every term. Students are expected to be available for these evenings and take an active part in their organisation.

Economics

Advanced Subsidiary Level – 1 Year Course

Joseph Stiglitz, a Nobel Laureate in economics, probably stated it best almost three decades ago when he wrote: A knowledge of Economics serves as a “means of communication among people, incorporating a basic vocabulary or logic that is so frequently encountered that the knowledge should be possessed by everyone.”

Economics will give students the tools for understanding their economic world and how to interpret events that will either directly or indirectly affect them. It is about choice and is at the heart of all decision-making. Individuals, businesses and governments are all faced with making choices in situations where resources are scarce. In studying Economics students will examine topics of obvious importance to human well-being.

Graduates with an Economics degree are highly sought after and may work in both public sector and private sector organisations such as: Banks, Investment companies, Accounting firms, Law firms, The Reserve Bank, Treasury, Ministry of Foreign Affairs & Trade, Department of Internal Affairs, Statistics NZ, Ministry of Business Innovation and Employment, NZ Trade and Enterprise, various international trade and development organisations, or in a university.

Topics covered: The Price System and the Theory of the firm, Government Intervention in the price system, International Trade, Theory and Measurement in the Macro economy, Macroeconomic problems and Macroeconomic policies

Assessment at a glance:

| Paper | Name of paper | Duration | Weighting (%) |
|-------|------------------|----------|---------------|
| 1 | Multiple Choice | 1h | 40% |
| 2 | Data Response | 1h 30m | 30% |
| | Structured Essay | | 30% |

Advanced level – 1 Year Course

Pre-requisites

Students must have successfully completed AS Economics.

| Paper | Name of paper | Duration | Weighting (%) |
|--|-----------------|----------|---------------|
| Your Economics AS Level Mark carried forward | | | 50% |
| 3 | Multiple Choice | 1h 15m | 15% |
| 4 | Data Response | 2h 15m | 10% |
| | Essays | | 25% |

Papers 3 and 4 test the topics in the supplement, but also require a knowledge and understanding of the topics in the Core.

Environmental Management

Advanced Subsidiary Level – 1 Year Course

Environmental Management is an AS Level only course.

Environmental management is concerned with the impacts of human activity on the environment. Having a basic understanding of the structure of the earth and the science of key natural phenomena is essential to the study of environmental management. This section introduces these foundations and they are used as a starting point for other sections in this syllabus. Some candidates may have previously studied the knowledge in this section as part of a Level 2 course (GCSE, IGCSE, O Level).

| Paper | Name of paper | Duration | Weighting (%) |
|-------|--|----------|---------------|
| 1 | Principles of Environmental Management | 1h 45m | 50% |
| 2 | Management in Context | 1h 45m | 50% |

The aims are to enable students to develop:

- knowledge of natural systems which make life possible on Earth
- an understanding that humans are part of these systems and depend on them
- an appreciation of the diverse influences of human activity on natural systems
- an awareness of the need to manage natural systems
- an understanding of sustainable development to meet the needs of the present, without compromising the ability of future generations to meet their own needs
- a sense of responsibility and concern for the welfare of the environment and all organisms
- an awareness of their own values concerning environmental issues • an awareness of the values of others
- a willingness to review their own attitudes in the light of new knowledge and experiences • a sound basis for further study, personal development and participation in local and global environmental concerns.

English Language

AS English Language or AS English Literature is compulsory in Year 12. Students may take both English Language and Literature.

Advanced Subsidiary Level – 1 Year Course

Pre-Requisites

Students must have achieved a C Grade or higher in IGCSE English Language or have permission from the Head of Department – Languages.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------|----------|---------------|
| 1 | Reading | 2h 15m | 50% |
| 2 | Writing | 2h | 50% |

In both papers:

The requirements are to demonstrate knowledge and understanding of:

- The conventions of a wide range of written textual forms, both fiction and non-fiction
- The linguistic elements and literary features of texts
- The significance of audience in both the design and reception of texts
- The ways in which genre, purpose and context contribute to the meaning of texts

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS Level English.

| Paper | Name of paper | Duration | Weighting (%) |
|---|-------------------|----------|---------------|
| Your English Language AS Level Mark carried forward | | | 50% |
| 3 | Language Analysis | 2h 15m | 25% |
| 4 | Language Topics | 2h 15m | 25% |

Language topics - The topic areas for examination in 2022 are:

- Language change
- Child language acquisition
- English in the world
- Language and the self

Paper 3 develops skills in language data analysis and linguistic theory.

Paper 4 explores issues related to how language is used, moving beyond the practical application of the English language.

English Literature

Advanced Subsidiary Level – 1 Year Course

Students must have achieved a C Grade or higher in IGCSE English Literature or Language or have permission from the Head of Department – Languages.

This course will furnish students with:

- The ability to write clearly and effectively
- Skills in developing arguments
- Skills in researching and managing information
- The ability to analyse complex texts in different forms and styles

This course will suit students who:

- Enjoy reading
- Like to discuss ideas in texts and how they relate to the world
- Can formulate independent ideas about texts in writing

Candidates for AS Level Literature study three texts and prepare for one unseen text. This is an academic course where students use critical material to develop their awareness of how texts reflect their social and historical contexts, as well as their own analytical and reasoning skills, discussing how the ideas in the texts reflect universal concerns which are still relevant today.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|------------------|----------|---------------|
| 1 | Drama and Poetry | 2h | 50% |
| 2 | Prose and Unseen | 2h | 50% |

A selection of texts is studied covering the genres of prose, poetry and drama.

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS English Literature. Candidates for A Level English Literature are required to enter for Papers 1, 2, 3 and 4. Papers 1 and 2 are normally taken as part of the AS programme, with the remainder taken as part of the A2 programme.

| Paper | Name of paper | Duration | Weighting (%) |
|---|------------------------------------|----------|---------------|
| Your English Literature AS Level Mark carried forward | | | 50% |
| 3 | Shakespeare and Drama | 2h | 25% |
| 4 | Pre-and-Post-1900 Poetry and Prose | 2h | 25% |

Students study a selection of texts covering the genres of prose, poetry and drama.

Further Mathematics

Advanced Subsidiary Level – 1 Year Course

Pre-Requisites

Further Mathematics is a course for exceptional Mathematics students who are following Pinehurst's accelerated Mathematics programme. The course expects students to have completed A-Level Mathematics as all topics depend on material learned in this course. Entry to the course will be at the discretion of the Head of Department after a discussion with the student to weigh up their results so far and their future aspirations.

Candidates for AS Level Further Mathematics are required to enter for the Further Mathematics Pure 1 and Mechanics papers. These papers are sat in October/November of the first year of the programme.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|-----------------------------|----------|---------------|
| 1 | Further Pure Mathematics P1 | 2h | 60% |
| 3 | Further Mechanics | 1h 30m | 40% |

Topics covered include:

Roots of polynomial equations, Rational functions and graphs, Summation of series, Matrices, Polar coordinates, Vectors, Proof by induction, Motion of a projectile, Equilibrium of a rigid body, Circular motion, Hooke's law, Linear motion under a variable force, Momentum

Geography

Advanced Subsidiary Level – 1 Year Course

Why do Geography?

A sound knowledge of Geography allows for an understanding of the changing environment. This, in combination with skills and abilities acquired during the course will throw open opportunities for employment in a wide variety of fields such as Urban and Regional Planning, Resource management, Law, Geology and Tourism.

Territorial Authorities (district, city and regional councils), Private companies (e.g. Fletcher Building) and Government departments (MAF Qual/MAF Tech) are always in need of trained geographers.

Candidates for AS Level Geography are required to enter for Papers 1 and 2. This paper is sat in November of the first year of the programme.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|-------------------------|----------|---------------|
| 1 | Core Physical Geography | 1h 30m | 50% |
| 2 | Core Human Geography | 1h 30m | 50% |

Topics covered include:

Hydrology and Fluvial Geomorphology, Atmosphere and Weather, Rocks and Weathering, Population Change, Settlement Dynamics, Migration.

AS Geography is the first stage of in-depth specialisation within Geography's two main branches: Physical Geography and Human Geography.

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS Geography.

Candidates for A Level Geography are required to enter for Papers 3 and 4.

| Paper | Name of paper | Duration | Weighting (%) |
|--|-----------------------------|----------|---------------|
| Your Geography AS Level Mark carried forward | | | 50% |
| 3 | Advanced Physical Geography | 1h 30m | 25% |
| 4 | Advanced Human Geography | 1h 30m | 25% |

Topics covered include:

Coastal Environments, Hazardous Environments, Environmental Management, and Global Inter Dependence.

Global Perspectives and Research

Advanced Subsidiary Level – 1 Year Course

The course is firmly based on skills rather than specific content. It enables students to explore and make judgements about global issues of relevance and importance to their own lives. It is designed to develop skills in research, critical thinking, reasoning, problem-solving, obtaining information, evaluate its reliability and usefulness, and develop communication skills by analysing and evaluating arguments and perspectives. Collaboration skills are enhanced through participation in a team project.

Through the study of a range of global issues, students will explore different perspectives allowing them to nurture cross-cultural awareness and promote cultural empathy. Global Perspectives & Research encourages transformative learning, whereby learners become more aware of their own beliefs and assumptions and more able to be self-critical.

We recommend that students who are beginning this course have attained communication and literacy skills at a level equivalent to IGCSE™/GCSE Grade C in English.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---|----------|---------------|
| 1 | Written Examination Compulsory structured questions based on sources provided. | 1h 30m | 30% |
| 2 | Essay Candidates explore different perspectives on issues of global significance and write a 2000-word essay based on their research. | - | 35% |
| 3 | Team Project Candidates work in teams to identify a local problem which has global relevance. | - | 35% |

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS Global Perspectives and Research.

| Paper | Name of paper | Duration | Weighting (%) |
|---|--|----------|---------------|
| Your Global Perspectives & Research AS Level Mark carried forward | | | 50% |
| 4 | Cambridge Research Report Candidates devise and develop a research question. This is answered in a report based on individual personal research (4500-5000 words). | - | 50% |

By developing thinking and reasoning skills, as well as research and communication skills, Cambridge International Level Global Perspectives & Research will enable students to meet the demands of the twenty-first century and to make a successful transition to higher education, employment and lifelong learning.

History

Advanced Subsidiary Level – 1 Year Course

A History student has a passion for the complexities of the past and how it has influenced the world we live in today.

The aims are to enable students to develop:

- an interest in the past and an appreciation of human endeavour
- a greater knowledge and understanding of historical periods or themes
- a greater awareness of historical concepts such as cause and consequence, change and continuity, similarity and difference, significance and interpretations
- an appreciation of the nature and diversity of historical sources available, and the methods used by historians
- an exploration of a variety of approaches to different aspects of history and different interpretations of particular historical issues
- the ability to think independently and make informed judgements on issues
- an empathy with people living in different places and at different times
- a firm foundation for further study of History.
- Candidates will complete one topic for each component. At Pinehurst we complete the following components:

| Paper | Name of paper | Duration | Weighting (%) |
|-------|--|----------|---------------|
| 1 | Document Question Russian Revolution 1894-1921 | 1h 15m | 40% |
| 2 | Outline study France 1774-1814 Industrial Revolution in Britain 1750-1850 | 1h 45m | 60% |

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS History.

Candidates will complete **one** topic for each component. At Pinehurst we complete the following:

| Paper | Name of paper | Duration | Weighting (%) |
|--|--|----------|---------------|
| Your History AS Level Mark carried forward | | | 50% |
| 3 | The Holocaust Interpretation question | 1h 15m | 20% |
| 4 | International history 1945-1992 Depth Study | 1h 45m | 30% |

Mathematics

Advanced Subsidiary Level – 1 Year Course

Pre-Requisites

Students must have previously taken IGCSE Mathematics Extended and achieved a C Grade or higher, or have permission from the Head of Department – Mathematics.

Candidates for AS Level Mathematics are required to enter for Papers P1 and S1. These papers are sat in October/November of the first year of the programme.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------------|----------|---------------|
| 1 | Pure Mathematics P1 | 1h 50m | 60% |
| 5 | Statistics S1 | 1h 15m | 40% |

Topics covered include:

Quadratics, Functions, Co-ordinate Geometry, Circular Measure, Trigonometry, Differentiation, Integration, Series, Representation of Data, Permutations and Combinations, Probability, Discrete Random Variables and The Normal Distribution.

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS Mathematics.

Candidates for A Level Mathematics are required to enter for Papers 1, 3, 4 and 5. Papers 1 and 5 are taken as part of the AS programme, with Papers 3 and 4 taken as part of the A2 programme.

| Paper | Name of paper | Duration | Weighting (%) |
|--|---------------------|----------|---------------|
| Your Mathematics AS Level Mark carried forward | | | 50% |
| 3 | Pure Mathematics P3 | 1h 50m | 30% |
| 4 | Mechanics M1 | 1h 15m | 20% |

Topics covered include:

Algebra, Logarithmic and Exponential Functions, Trigonometry, Differentiation, Integration, Numerical Solutions of Equations, Vectors, Differential Equations, Complex Numbers. Forces and Equilibrium, Kinematics, Laws of Motion, Energy and Power.

Music

Advanced Subsidiary Level – 1 Year Course

Music is increasingly recognised as an asset to any further studies that students wish to undergo at university level. It is an ideal complement to other A-levels, whether artistic or scientific, as it demonstrates a broad education to any potential employers.

Students must have passed IGCSE Music or have sat and passed at least grade 4 ABRSM or Trinity theory and performance examinations to enrol in this course.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|--|----------|---------------|
| 1 | Listening - Written paper | 2h | 60% |
| 2 | Coursework – Performance and Composition | - | 40% |

Listening Topics: Studying a number of set works and being familiar with stylistic, harmonic and theoretical musical contexts in preparation to answer five questions from three sections in a two hour exam.

Coursework: this will comprise of creating two contrasting compositions no longer than 4 minutes together and performing up to 10 minutes, as a soloist or a group member on one or more instruments.

Advanced Level – 1 Year Course

Students must have passed AS Music.

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| Paper | Name of paper | Duration | Weighting (%) |
|--|--|----------|---------------|
| Your Music AS Level Mark carried forward | | | 50% |
| | <p>And two of the following three options:</p> <ul style="list-style-type: none"> Extended performance of 15-20 minutes, recorded on video with a 1000-1500 word research report on the pieces Extended composition, 6 - 8 min long with a 1000-1500 research report Investigating Music, 2500-3000 word essay with up to 500 word reflective statement based on either their Performance or composition option | - | 50% |

Physical Education

Advanced Subsidiary Level – 1 Year Course

The AS Physical Education course aims to provide a knowledge and understanding of the conceptual basis, structure and function of a representative selection of physical education activities; develop understanding and problem-solving skills (interpretation and evaluation); develop planning and practical skills for effective performance; foster an ability to relate practice to theory and theory to practice; develop an understanding of the scientific, socio-cultural and environmental factors which influence physical education; provide an experience which is valuable both as a means of personal development and as a foundation for employment or more advanced study.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------|----------|---------------|
| 1 | Written Paper | 2h 30m | 70% |
| 2 | Coursework | - | 30% |

Component 1 is a written paper it will consist of three sections. **Section A:** Applied Anatomy and Physiology, **Section B:** Acquiring, Developing and Performing Movement Skills, **Section C:** Contemporary Studies in Physical Education and Sport.

Component 2 is a Coursework component (30%), in which candidates will follow a minimum of two activities from the activity profiles offered. This will be internally assessed and externally moderated by CAIE. The assessment is divided and weighted as 20% for Performance and its improvement and 10% for Analysis and comment. The practical section is about the ability to analyse and evaluate performance hence a student does not necessarily have to excel in sports to do well in this subject. Candidates should undertake a minimum of two practical activities chosen from the following categories: Athletic Activities, Fitness Activities, Combat Activities, Dance, Invasion Games, Net/Wall Games, Striking/Fielding Games, Target Activities, Gymnastic Activities, Swimming or Outdoor and Adventurous Activities.

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS Physical Education.

Candidates for A2 Level Physical Education are required to enter for Components 3 and 4.

| Paper | Name of paper | Duration | Weighting (%) |
|---|---------------|----------|---------------|
| Your Physical Education AS Level Mark carried forward | | | 50% |
| 3 | Written Paper | 2h 30m | 35% |
| 4 | Coursework | - | 15% |

Component 3 is a written paper (70%) to be assessed externally in a 2 ½ hour examination. It will consist of three compulsory questions on the following.

Section A: Exercise and Sport Physiology, **Section B:** Psychology of Sport Performance, **Section C:** Olympic Games – A Global Perspective.

Component 4 is a Coursework component (30%), where candidates are assessed in two activities (worth 20% of the final mark) and an interview of each candidate where they are assessed on their evaluation of another performer in a sporting activity.

Physics

Advanced Subsidiary Level – 1 Year Course

Pre-Requisites

Students must have achieved a C Grade or higher in IGCSE Physics or have permission from the Head of Department – Sciences.

Physics is an essential requirement for any student seeking a future in engineering, product design or any related technological subject. Physics is the study of how the world behaves and how the laws of nature operate, and is generally regarded as the most fundamental science subject. The subject looks at how things work and the principles and laws that predict their behaviour. This is a practically based course. Accurate measurement is very important in the development of any science, and this is particularly true of physics. Students will learn how to take measurements using a wide range of scientific apparatus including data logging with computers.

The data is then analysed using graphical techniques in order to investigate whether it fits a pattern or hypothesis.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|----------------------|----------|---------------|
| 1 | Multiple Choice | 1h 15m | 31% |
| 2 | Structured Questions | 1h 15m | 46% |
| 3 | Practical Skills | 2h | 23% |

Topics covered include:

Physical quantities and units. Measurement techniques. Kinematics. Dynamics. Forces, density and pressure. Work, energy and power. Deformation of solids. Waves. Superposition. Current electricity. D.C. circuits. Particle physics.

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS Physics.

| Paper | Name of paper | Duration | Weighting (%) |
|--|----------------------|----------|---------------|
| Your Physics AS Level Mark carried forward | | | 50% |
| 4 | Structured Questions | 2h | 38.5% |
| 5 | Practical Paper | 1h 15m | 11.5% |

The programme builds on the topics studied at AS level in further detail.

Additional Topics covered include:

Motion in a circle. Oscillations. Temperature. Thermal properties of materials. Ideal gases. Gravitational and electric fields. Capacitance. Electronics. Magnetic fields. Electromagnetic induction. Alternating currents. Communication. Quantum physics. Nuclear physics.

Psychology

Advanced Subsidiary Level – 1 Year Course

Psychology is an experimental science which attempts to explain the behaviour of individuals based on the workings of the mind. We cannot see someone thinking, nor can we observe their emotions, memories, or perceptions and dreams. So how do psychologists go about studying the mind? Psychologists take human behaviour as the raw data for testing their theories about how the mind works. They apply scientific methodology: they formulate theories, test hypotheses through observation and experiment, and analyse the findings with statistical techniques that help them identify important findings and patterns across populations.

Psychology lies at the intersection of many other disciplines including Biology, Medicine, Linguistics, Philosophy, Anthropology, Sociology, and Artificial Intelligence (AI). Interest in studying Psychology has grown in recent years, particularly in the development of positive psychology with its focus on human potential and wellbeing. Psychology is fundamental to a range of careers, for example: clinical, counselling, educational, forensic or health psychologists. This also provides useful training for the Police and Armed Forces.

| Paper | Type | Duration | Weighting (%) |
|-------|---|----------|---------------|
| 1 | Short answer and an essay question based on core studies | 1h 30m | 50% |
| 2 | Short answer and a design-based question some questions based on core studies | 1h 30m | 50% |

Topics covered include 12 Core Studies that have been selected to reflect four approaches used in psychology. These are cognitive, social, biological and learning approaches.

Advanced Level – 1 Year Course

Pre-Requisites - Students must have successfully completed AS Level Psychology.

| Paper | Type | Duration | Weighting (%) |
|---|--|----------|---------------|
| Your Psychology AS Level Mark carried forward | | | 50% |
| 3 | Short answer and structured essays | 1h 30m | 25% |
| 4 | Short answer, design-based question and one essay question | 1h 30m | 25% |

The A level syllabus encourages students to look at how psychological theory has been applied. This involves integrating the various areas of the subject and seeing the connections and contrasts between them. The chosen applied areas are Health Psychology and Abnormal Psychology. A summary of key studies is required as well as understanding relevant issues and debates.

Spanish

Advanced Subsidiary Level – 1 Year Course

Pre-Requisites

Students must have achieved a C Grade or higher in IGCSE Spanish or have permission from the Head of Department – Languages.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------------|----------|---------------|
| 1 | Speaking | 20m | 29% |
| 2 | Reading and Writing | 1h 45m | 50% |
| 3 | Essay | 1h 30m | 21% |

Topics covered include:

Human relationships, Family, Generation gap, Young people, Patterns of daily life, Urban and rural life, The media, Food and drink, Law and order, Religion and belief, Health and fitness, Work and leisure, Equality of opportunity, Employment and unemployment, Sport, Free time activities, Travel and tourism, Education, Cultural life/ heritage, War and peace, The developing world, Scientific and medical advances, Technology and innovation, Environment, Conservation, Pollution, Contemporary aspects of the country or countries where the language is spoken.

Advanced Level – 1 Year Course

Pre-Requisites

Students must have successfully completed AS Spanish.

| Paper | Name of paper | Duration | Weighting (%) |
|-------|---------------------|----------|---------------|
| 1 | Speaking | 20m | 20% |
| 2 | Reading and Writing | 1h 45m | 35% |
| 3 | Essay | 1h 30m | 15% |
| 4 | Texts | 2h 30m | 30% |

Literature Paper:

Candidates answer three questions in the target language. Each question must be on a different text, taken from the list of set texts provided every year.

Careers Guidance

The subjects you choose to study at school can have an impact on the options you will have for further study on leaving school. Choosing is often a balancing act between those subjects that are compulsory, what fits in the timetable and what you enjoy learning about. As many students have not yet settled upon a career path especially at Year 10 level it can be hard to decide which are the 'best' subjects to be studying. Apart from a few specialised areas it is generally better to keep your options as wide as possible. You will have an extensive choice of study pathways on leaving school, many of them unrelated to school subjects.

Medicine, Engineering, Veterinary Science and Art/Design courses are the traditional areas where school subject choice can have an impact but there is an increasing number of degrees where entry depends on you having studied a specific subject to a certain level at school. Most universities have created useful documents to assist school students in choosing subjects. You can find links to these on the Careers Page on Schoolbox (Student Services/Careers/Choosing IGCSE, AS and A Level Subjects).

<https://schoolbox.pinehurst.school.nz/homepage/1678> If you are unsure about the specific requirements for an area of interest please see the Career Counsellor, Mrs Kaye Griffiths, before choosing your subjects.

Also, should you be considering continuing your studies in a country other than New Zealand, it is important you check the entry requirements for courses in that country. Most overseas Universities require study to A2 level in at least 3 subjects. Mrs Griffiths has information available for students to access for local, national and international universities and training organisations.

Career Education Modules will be incorporated into most year levels to assist students to make informed choices. Students are encouraged to save their career and course research on their Career Central profiles. Individual career counselling is available and students and/or parents are welcome to make an appointment to discuss subject choices and career options. Many presentations and workshops on career related topics are offered throughout the year and it is important that students keep a close watch on the Careers notices.

The more research and investigation you do regarding your future learning pathway the better your chances of being successful in the next stage of your life.

Kaye Griffiths

Career Counsellor

Email: **Kaye.Griffiths@pinehurst.school.nz**

