

A LEVEL CHOICES 2022 - 2024

“WHERE THERE
IS BELIEF THERE
IS POSSIBILITY”



Lucklex
SIXTH FORM

“I BELIEVE I CAN BECOME A FIRST
CLASS DOCTOR”

ARISSA

A black and white photograph of a young man with dark hair, wearing a school uniform consisting of a white shirt, a dark tie, and a dark blazer. He is looking down intently at a small electronic device, possibly a circuit board or a small fan, which he is holding with both hands. A green highlight is visible on the device. The background is blurred, suggesting an indoor setting like a classroom or a workshop.

"I BELIEVE I CAN BE THE NEXT
'BILL GATES'"

KAMRAN

HEAD'S WELCOME



The Sixth Form at Luckley House is dedicated to providing a broad, balanced and exciting curriculum that not only focusses on academic excellence, but on preparing students for university and beyond. In 2021, all of our Sixth Form students went on to the university of their choice, testament not only to excellent teaching, but also to the personalised guidance they received.

Our small class sizes allow for a strong focus on the individual whilst also providing a vast range of courses, wider learning and social opportunities.

The Luckley House Sixth Form truly is a vibrant place to learn and develop and I'm extremely proud of the genuine, articulate, well-rounded students who leave us with the skills needed to face the wider world.

Areti Bizior
Head

A WORD FROM THE HEAD OF SIXTH FORM



I am extremely pleased to introduce our new options booklet for Sixth Form. Please do take your time to look through the exciting A level options we are currently offering. In response to student demand, Politics is a new subject on offer this year.

Our outstanding teaching underpins every A level option and our teachers are all very welcoming, supportive and always available to answer any questions you may have.

We are also open to running courses that may not be advertised at the moment, so if there is something you want to do, please come and speak to us.

If there are any questions you have regarding any of the A level options offered here at Luckley, please do contact me directly.

Richard Battrick
Head of Sixth Form

ART – FINE ART

Head of Department:

Mr R Battrick, BA Hons Loughborough, MA Cardiff

Examination Board: Edexcel

Why Study Fine Art?

A level Art and Design is a fantastic course for those seeking to further develop their creative thinking and working skills. The course offers opportunities to explore and develop your own ideas, concepts and investigations into any subject area that you find interesting. Wonderfully cross-curricular, the course gives you the opportunities to collaborate and work independently and it encourages self-reflective review and analysis. Perfect for fine tuning your skill set in preparation for Foundation and Degree level courses in the Visual Arts.

Course Content

You will be encouraged to use an extensive range of materials and techniques to give visual form to individual thoughts, ideas and observations, enabling you to present your own way of seeing the world. Through clear intention of ideas and sensitive manipulation of materials, you will each produce work that is a personal response to set themes.

Disciplines include painting and drawing, printmaking, sculpture and alternative media (mixed-media, installation, digital, photography, film and video). You will be given time to work in most of these areas and develop a high command of skills and subject knowledge. Exams are taken at the end of the two-year course.

As part of the coursework, you will produce a piece of extended writing of between 1000 – 3000 words that relates to your coursework.



Possible Career Options

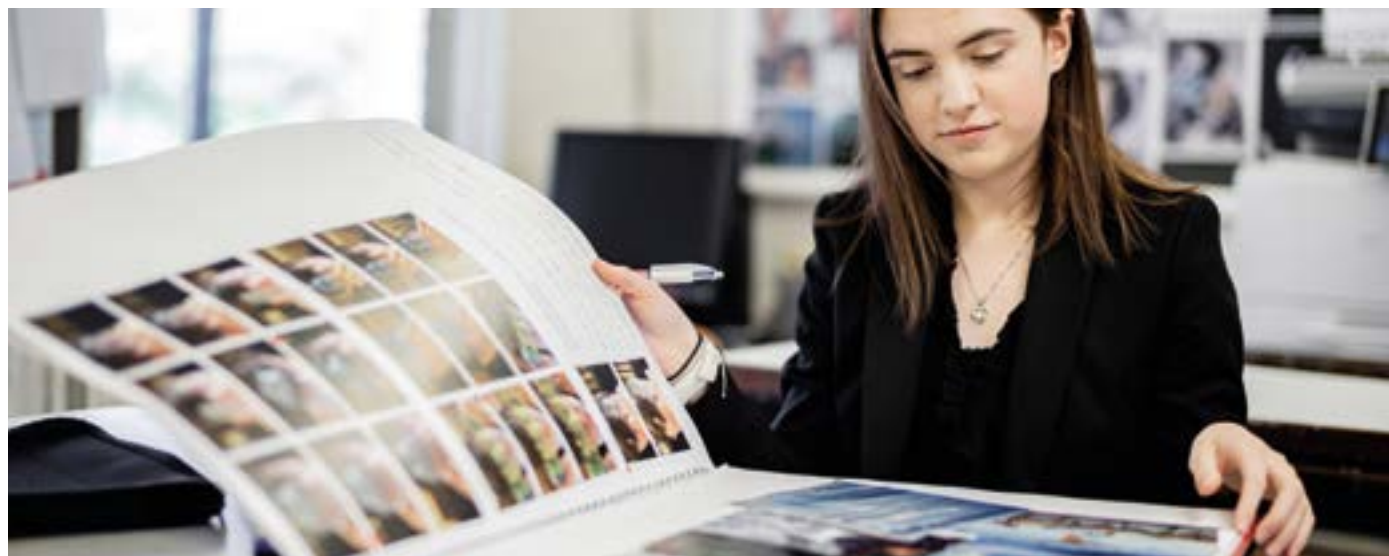
Students taking this subject can go on to gain employment in a wide variety of areas. For example:

- Fine Artist
- Illustrator
- Art Therapist
- Art Director
- Advertising Executive
- Community Arts Worker
- Graphic Designer
- Printmaker
- Ceramicist
- Sculptor
- Jewellery Designer
- Architect
- Special Effects Technician
- VFX Artist.

Assessment

The Controlled Assignment

Students are given 12 weeks to develop ideas through sketchbook research from a theme set by Edexcel. The externally set paper is a 15 hour examination.



ART – GRAPHICS

Head of Department:

Mr R Battrick, BA Hons Loughborough, MA Cardiff

Examination Board: Edexcel

Why Study Graphics?

The course is an exciting opportunity to work in Graphic design with the freedom of an Art course. Create your own professional brief or theme and work with your own ideas. Whether it's characters for computer games, designs for tee shirts and clothing, illustrating books and stories or even exploring different types of brands, if you enjoy designing then Art Graphics is definitely for you. The course guides you through the creative process and allows you the opportunity to work in a wide range of mediums and materials, utilising traditional ways of working alongside more contemporary and digital techniques and approaches.

Course Content

You will be encouraged to use an extensive range of materials and techniques to give visual form to individual thoughts, ideas and observations, enabling you to present your own way of seeing the world. Through clear intention of ideas and sensitive manipulation of materials, you will each produce work that is a personal response to set themes that you have helped choose.

Disciplines include painting and drawing, printmaking, sculpture and alternative media (mixed-media, installation, digital, photography, film and video). You will be given time to work in most of these areas and develop a high command of skills and subject knowledge. Exams are taken at the end of the two-year course.

As part of the coursework, you will produce a piece of extended writing of between 1000 – 3000 words that relates to your coursework.



Possible Career Options

Students taking this subject can go on to gain employment in a wide variety of areas. For example:

- Illustrator
- Art Therapist
- Art Director
- Advertising Executive
- Community Arts Worker
- Graphic Designer
- Animation
- 3D animation and animation design
- Architect
- Special Effects Technician
- VFX Artist
- Education.

Assessment

The Controlled Assignment

Students are given 12 weeks to develop ideas through sketchbook research from a theme set by Edexcel. The externally set paper is a 15-hour examination.



ART – PHOTOGRAPHY

Head of Department:

Mr R Battrick, BA Hons Loughborough, MA Cardiff

Examination Board: Edexcel

Why Study Photography?

Photography gives you the freedom to record your own view of the world around you in one click. Photography makes it possible to record in seconds an inimitable image that captures profound and personal responses to the environment. Through taking imaginative risks with this medium you are given a chance to manipulate and create unique images, and this diverse and personal response enables you to create highly individual and thought-provoking photographs.

Course Content

You will be encouraged to work within the disciplines of the darkroom, the studio and digital manipulation using ICT. Work will be generated through set themes and sketchbook research that aims to develop ideas through the manipulation of photographic techniques and extensive research into photo-based artists. A high command of skills and subject knowledge is developed throughout the course, enabling you to make thought-provoking and original photographs. Photography is a lens and light based media, and includes work in film, video, digital imaging and light-sensitive materials. No prior knowledge of Art or Photography is necessary. Exams are taken at the end of the two-year course. As part of the coursework, you will produce a piece of extended writing of between 1000 – 3000 words that relates to your coursework.



Possible Career Options

Students taking this subject can go on to gain employment in a wide variety of areas. For example:

- Photographer
- Cinematographer
- Art Therapist
- Art Director
- Advertising Executive
- Film and TV
- Graphic Designer
- Event management
- Health and beauty
- Fashion Photographer
- Magazine Editor
- Special Effects Technician
- VFX Artist
- Education.

Assessment

The Controlled Assignment

Students are given 12 weeks to develop ideas through sketchbook research from a theme set by Edexcel. The externally set paper is a 15-hour examination.



BIOLOGY

Head of Department:

Dr R Jones, PhD Aberdeen

Examination Board: Edexcel

Why Study Biology?

Biologists study the natural world and all the living things in it, from the largest mammals to the structure and function of DNA. They try to understand how animals and organisms work, how we evolved and how we get ill. This knowledge can then be used to stop the spread of disease, improve public health, improve animal care and conservation as well as studying the impact of pollution on the environment. Biologists work with cutting edge technologies including genetic engineering and gene therapy.

Course Content

Topic 1: Biological molecules

Topic 2: Cells, Viruses and Reproduction of Living Things

Topic 3: Classification and Biodiversity

Topic 4: Exchange and Transport

Topic 5: Energy for Biological Processes

Topic 6: Microbiology and Pathogens

Topic 7: Modern Genetics

Topic 8: Origins of Genetic Variation

Topic 9: Control Systems

Topic 10: Ecosystems

A variety of different practical tasks will be carried out that count towards the practical endorsement in Biology



Possible Career Options

- Medicine
- Dentistry
- Veterinary Science
- Physiotherapy
- Pharmacy
- Pharmacology
- Geneticist
- Zoology
- Psychiatry
- Microbiology
- Marine Biology
- Anthropology
- Immunology
- Conservation
- Ecologist
- Optometry
- Nursing

Assessment

Three written exam papers and a practical endorsement. This is assessed internally and reported separately. It does not contribute to the final A level grade.



CHEMISTRY

Head of Department:

Dr W Ross, PhD, Imperial College London

Examination Board: Edexcel

Why Study Chemistry?

Chemistry is a challenging subject which seeks to explain what goes on in the world around us. Chemistry teaches students to think logically, to be objective and to solve problems - as a consequence an A level qualification in Chemistry is highly regarded by employers and higher education institutions. Chemistry is often a mandatory requirement for scientific and other numerate degree disciplines.

Course Content

Year 1

- Atomic Structure and the Periodic Table
- Bonding and Structure
- Redox I
- Inorganic Chemistry and the Periodic Table
- Formulae, Equations and Amounts of Substance
- Organic Chemistry I
- Modern Analytical Techniques I
- Chemical Energetics I
- Reaction Kinetics I
- Chemical Equilibrium I.

Year 2

- Chemical Equilibrium II
- Acid-base Equilibria
- Chemical Energetics II
- Redox II
- Transition Metals
- Reaction Kinetics II
- Organic Chemistry II
- Organic Chemistry III
- Modern Analytical Techniques II.



Possible Career Options

- Medicine
- Dentistry
- Veterinary Medicine
- Forensic Science
- Scientific Research
- Pharmacy
- Pharmacology
- Chemical Engineer
- Environmental Health
- Dietician.

Assessment

Three written exams:

Advanced Inorganic and Physical Chemistry (30%)

1hr 45 mins

Advanced Organic and Physical Chemistry (30%)

1hr 45 mins

General and Practical Principles in Chemistry (40%)

2hr 30 mins

There is also a separate 'Science Practical Endorsement'.



COMPUTER SCIENCE

Head of Department:

Mr G Bouwer

Examination Board: AQA

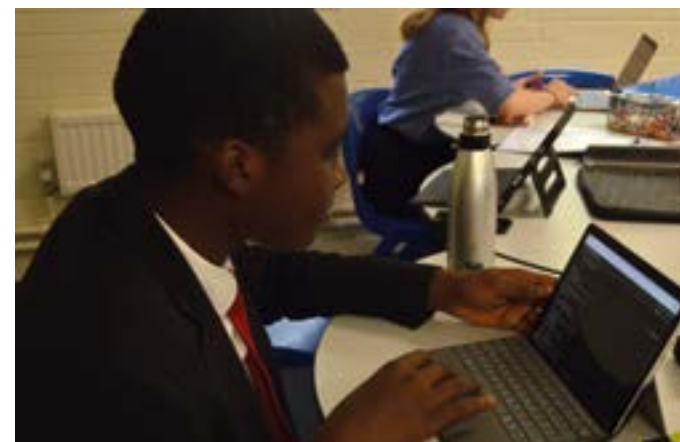
Why Study Computer Science?

Computer Science is part of every aspect of our lives. Understanding how it can be utilised to create more effective and efficient solutions is a necessary skill set for an educated person in the 21st Century. Computer Science drives innovation in Science, Engineering, Business, Entertainment and Education. Whether you want to be a Scientist, Engineer, Mathematician or develop the latest killer application, Computer Science will provide you the knowledge and expertise to achieve your goals.

Course Content

- Fundamentals of programming and data structures.
- Systematic approach to algorithmic problem solving.
- Theory of computation.
- Fundamentals of data representation and system architecture.
- Consequences of uses of computing.
- Communication and Networking.
- Graphic User Interface development.
- Database design/programming.
- Functional Programming

Lessons are very hands on with as much scope as possible for students to be creative with practical tasks backing up every concept that is taught. Students work is regularly assessed, so they always know where their strengths lie, which specific areas they can improve and how to improve them.



Possible Career Options

Universities look very favourably on Computing, due to its logical, problem solving nature. It specifically helps students who wish to go on to study Computing, Maths or Science at University, as all degrees in Maths and Science will include modules in programming. Learning to program during the Computer Science A level will make these modules a breeze increasing your chances of achieving a higher class of degree, in addition to ensuring you are able to utilise computers effectively to become a leader at the cutting edge of your chosen field. Computer Science jobs are among the most lucrative and in surveys consistently have the highest job satisfaction.

Assessment

Paper 1: Online (40%)

Paper 2: Written (40%)

20 % Coursework project chosen by the student, either a programmed solution to a problem or an investigation into an area they are interested in.



DRAMA & THEATRE STUDIES

Head of Department:
Mrs E Brown, BA (Hons) Wales
Examination Board: AQA

Why Drama & Theatre Studies?

Individuals who can generate innovative ideas, who can work as part of a team to develop those ideas and bring them to a successful conclusion. These are the people who are sought after by universities and business leaders alike. These are the skills you gain from the Drama and Theatre Studies course. Moreover, discovering a passion for theatre and performance art will enrich your life, whatever career path you choose.

Course Content

- Year 1**
- You will study a set play.
 - You will see a variety of live performances and learn how to write about them.
 - The group will rehearse and perform an extract from a published play.
- Year 2**
- You will study and analyse two plays from different periods.
 - The group will perform a piece of drama of their own devising using movement, music, improvisation and text.

You will have the opportunity to go on theatre trips and take part in Drama workshops to complement the course.



Possible Career Options

- In addition to acting – on the stage or screen, you could also consider:
- Director
 - Creating your own theatre company
 - Being part of a theatre-in-education group
 - Presenter
 - Working in radio
 - Studio Runner.

- The list of jobs in the professional industry is huge, in particular the wealth of jobs backstage:
- Costumer Designer
 - Set Designer
 - Make-up Artist
 - Prosthetic Artist etc.

Assessment

Component 1 - Written exam 40%
Component 2 - Devised Drama 30%
Component 3 - Scripted Play Performance



DRAMA & TECHNICAL DESIGN

Head of Department:
Mrs E Brown, BA (Hons) Wales
Examination Board: AQA

Why Drama & Technical Design?

Working alongside the actors, design students can explore how best to deliver themes and intentions to an audience through innovative use of sound, lighting, set and costume design. All students work towards practical examination performances and presentations showing off their new ideas. Working within a fully equipped working theatre, with an industry professional technician gives our students the highest possible support in creating new theatre.

Course Content

- Year 1**
- You will study a set play.
 - You will see a variety of live performances and learn how to write about them.
 - The group will rehearse and perform an extract from a published play.
- Year 2**
- You will study and analyse two plays from different periods.
 - The group will perform a piece of drama of their own devising using movement, music, improvisation and text.

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Possible Career Options

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- Director
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 - Presenter
 - Working in radio
 - Studio Runner.

- The list of jobs in the professional industry is huge, in particular the wealth of jobs backstage:
- Costumer Designer
 - Set Designer
 - Lighting and Sound Designer
 - Make-up Artist
 - Prosthetic Artist etc.

Assessment

Component 1 - Written exam 40%
Component 2 - Devised Drama 30%
Component 3 - Scripted Play Performance



ECONOMICS B

Head of Department:

Ms L Stephens, BA (Hons) York

Examination Board: Edexcel

Why Study Economics?

“To change the world you need to understand it, to understand it you need to know Economics.”

There could hardly be a more important time to study Economics. ‘Austerity’, ‘furlough’, ‘recession’, and ‘innovation’ have become part of our everyday language, as we see governments around the world struggle to balance their priorities and achieve their objectives. Studying Economics gives us the tools to address these complex issues; you may not have studied it before but that doesn’t matter! Society needs academics and professionals who can devise intelligent solutions in a constantly changing environment; this course will give you an insight into business operations and the global economy.

Course Content

Economics is about choice and the impact of our choices on each other. It relates to every aspect of our lives, from the decisions we make as individuals or families to the structures created by governments and firms.

In **Theme 1 and Theme 2** you will be introduced to the nature of economics, how markets work and why they fail, consumer choices and enterprise in the economy. You will also consider the role of banks and life in a global economy.

In **Theme 3 and Theme 4** you will explore the impact of globalisation on consumers, firms and the labour market. You will also investigate the role of the government and have an opportunity to consider the role and impact of the financial sector.



Possible Career Options

Economics students can follow a wide range of careers in industry, commerce, charitable/not-for-profit sector, finance, media, government and the civil service such as:

- Accountancy
- Insurance
- Banking and Investment Management
- Tax
- Marketing, Advertising and Public Relations
- Journalism
- Law
- Consulting.

Assessment

Three Papers of two hours

Papers 1 and 2 comprise of one data response question, broken down into parts, and two extended open-response questions based on data.

Paper 3 is comprised of extended open-response questions based on a pre-release context and stimulus material.



BUSINESS

Head of Department:

Ms L Stephens, BA (Hons) York

Examination Board: Edexcel

Why Study Business?

Do you enjoy:

- exploring and evaluating alternative courses of action?
- working with numbers to solve problems?
- keeping up to date with business news?

Whether you hope to start your own business one day or have an enquiring mind and are interested in learning more about how businesses work and the challenges they face, this course will help you to develop valuable transferable skills and commercial awareness that will prepare you for studying at university or moving into the world of work.

Course Content

Business is a dynamic subject. You will learn about the diverse nature of enterprise and the interdependence of the various parts of the business world, exploring success and failure, local, national and global markets, and the need to respond strategically to changing environments to survive and grow.

Themes 1 and 2 cover how businesses work. You will be introduced to marketing and people functions before investigating entrepreneurs and business start-ups. You will explore how business finance and operations work, and understand the impact of external influences.

Themes 3 and 4 move from functions to strategy. You will explore influences on business strategy and decision-making, and how businesses mitigate risk and uncertainty. You will explore global business and the opportunities and issues facing businesses in today’s global world.



Possible Career Options

A very wide range of careers opportunities are available across commercial, public sector and charitable organisations including:

- Consulting
- Marketing, Advertising and Public Relations (PR)
- Banking and Insurance
- Retail Buying
- Retail Management
- Sales
- Logistics/Distribution
- Human Resources
- Accountancy.

Many Business students will move on to more specialised higher education courses such as business management, accountancy and finance, marketing, tourism management and international business.

Assessment

Paper 1: data response and essay questions on marketing, people and global businesses (1 and 4)

Paper 2: data response and essay questions on business activities, decisions and strategy (2 and 3)

Paper 3: a research task before the exam. The data response and essay questions are linked to the context you will research.



ENGLISH LITERATURE

Head of Department:

Miss D Bahbra, BA (Hons) Surrey, MSc Leicester

Examination Board: AQA

Why Study English Literature?

Studying English Literature is both fun and useful. You will have the opportunity to read and discuss some of the most famous and exciting books ever written, as well as learning how to appreciate the craft of the writers who produced them. Wherever possible, we make sure that all drama texts studied are experienced as live theatre.

Course Content

Paper 1: Love Through the Ages

Unit 1 Shakespeare and Poetry - An anthology of love poetry from across the ages: - 'Othello', 'Taming of the Shrew', or 'Measure for Measure'

Unit 2 Prose - 'Persuasion', 'Jane Eyre', 'Wuthering Heights', 'Atonement', 'Rebecca', 'A Room with a View', 'The Go-Between' 'The Great Gatsby' (F.Scott.Fitzgerald).

Paper 2: Texts in Shared Context

Unit 3 - Modern Times: Literature from 1945 to present day. Three texts from this list:

'Skirrid Hill' (Owen Sheers), 'Birthday Letters' (Ted Hughes), 'Ariel' (Sylvia Plath), 'Cat on a Hot Tin Roof', 'A Streetcar Named Desire' (Tennessee Williams), 'Oranges are Not the Only Fruit' (Jeanette Winterson), 'The Help' (Kathryn Stockett), 'The God of Small Things' (Arundhati Roy), 'Waterland' (Graham Swift), 'The Handmaid's Tale' (Margaret Atwood), 'Feminine Gospels' (Carol Ann Duffy).

Unit 4 - Independent Critical Study

You will write an essay comparing two texts from your own choice. These should reflect an area of personal interest.



Possible Career Options

English Literature is a highly respected A level. In addition to choosing a degree course in the subject itself, students of A level English Literature might go on to study for university degrees in a range of subjects including: History, Sociology, Psychology, Drama & Theatre Studies and Law. Even Medical Schools value the subject highly. It is also very effective in developing transferrable skills such as interpretive abilities, communication, an understanding of how language works, close analysis, and the ability to construct a well-argued case. These are highly valued in a range of graduate careers such as:

Teaching, Business and Finance, Marketing/Advertising/ Public Relation, Journalism, Media/Publishing, Law Politics.

Some famous English Literature graduates include: Private Eye editor Ian Hislop, actor and broadcaster Stephen Fry, actress Emma Watson, Green Party MP Caroline Lucas and film director, Martin Scorsese.

Assessment

Paper 1: Units 1 and 2, 40% One written exam

Paper 2: Unit 3, 40% Coursework: Unit 4, 20%



GEOGRAPHY

Head of Department:

Ms R McCulloch, BSc (Hons), MA Ed King's College

Examination Board: AQA

Why Study Geography?

Geography is a dynamic subject, which is unique in bridging both the social and natural sciences. It therefore combines well with many subjects and is highly valued by universities as a facilitating subject. It draws together the techniques of research, communication, analytical skills, problem solving and teamwork, whilst aiming to develop students as 'global citizens' focusing on the interaction between people and the planet.

Course Content

Topics include:

Physical Geography

- Water and carbon Cycles; Coastal Systems and landscapes; Hazards.

Human Geography

- Global systems and global governance; changing places; population and the environment
- Geography fieldwork Investigation, including fieldwork and research and geographical skills.

You will have the opportunity to go on a Geography field trip during the autumn term of Years 12 and 13.



Possible Career Options

A vast array of careers including:

- Business management
- Finance and accounting
- Law
- Leisure and tourism
- Planning
- Journalism

Assessment

Physical Geography: Written exam: (2 ½ hrs) - 40%
Human Geography : Written exam (2 ½ hrs) - 40%
Geographical investigation: Individual investigation. Marked by the teacher and externally moderated - 20%



HISTORY

Head of Department:

Mr S Phillips, BA (Hons) York

Examination Board: AQA

Why Study History?

A good historian is a person who asks why and is willing to seek the answers. The study of History helps us to understand the world around us and where it might be heading. History is extremely well regarded by universities as a preparation for higher level study, being classed as a facilitating subject by the Russell Group, equipping students with analytical and evaluative skills, and the ability to synthesize material from a wide range of sources.

Course Content

Unit 1: Breadth Study

Russia 1855-1964

You will consider the changes in Russia under the last three Tsars and why Tsarism collapsed in 1917. You will go on to study the how the Communists came to power and the economic, social and political development of the USSR under Lenin, Stalin and Khrushchev.

Unit 2: Depth Study

The English Revolution 1625-60

You will focus on the breakdown in the relationship between Parliament and King Charles I that led to the Civil War. You will then go on to study the period of the English Republic where experiments in government failed leading to the restoration of the monarchy in 1660.

Unit 3: Coursework Essay

Crime in Victorian England c1810-c1918.



Possible Career Options

By the end of the course you will have developed an appreciation that the key skill of an historian is uncovering information, analysing it critically and then presenting your findings. History links directly to jobs in heritage or archives, but has applications way beyond that. The ability to research and process information is needed for a whole range of different careers – law, administration, public relations, marketing, journalism, social policy and politics, to name but a few.

Assessment

Unit 1: Two essays and one interpretation-based question, 40%

Unit 2: Two essays and one source-based question, 40%

Unit 3: Coursework, 20%



MATHEMATICS

Head of Department:

Mrs L Wintle, BSc (Hons) Sussex

Examination Board: Edexcel

Why Study Mathematics?

Mathematics is the right choice for you if you enjoy thinking logically and solving problems. At GCSE, you discuss new ideas and apply them to questions. The same is true for A level with a greater emphasis on writing convincing working and applying your skills in a more independent way. Mathematics plays an important role in many careers including computing, business management, economics, medicine, geography, psychology and social sciences. Mathematics can be usefully combined with any subjects.

Course Content

Two thirds of your course will be a pure maths element and one third is applied. The core modules build from the number, algebra, and shape topics at GCSE. These include quadratic equations, surds, coordinate geometry, graphs, trigonometry, sequences and calculus.

The applied module is a combination of Mechanics, and Statistics. Mechanics is the study of objects balancing, being rolled or thrown, and collisions. Statistics builds on the data handling topics from GCSE, by covering probability, scatter graphs and correlation, averages and variation, histogram, cumulative frequency, regression and standard deviation.

You will have the opportunity to take part in the national 'Team Maths Challenge' and will attend external Maths lectures.



Possible Career Options

- Accountancy
- Dentistry
- Medicine
- Engineering
- Technology
- Banking
- Acoustic consultant
- Actuarial analyst
- Astronomer
- Chartered Accountant.
- Chartered Certified Accountant.
- Data Analyst.
- Data Scientist
- Investment Analyst
- Research Scientist (Maths)
- Secondary School Teacher
- Software Engineer
- Sound Engineer
- Statistician

Assessment

There is no coursework or controlled assessment; assessment is by written exams only. Calculators can be used in all exams.



FURTHER MATHEMATICS

Head of Department:

Mrs L Wintle, BSc (Hons) Sussex

Examination Board: Edexcel

Why Study Further Mathematics?

If you find GCSE Maths easy and you enjoy algebra and trigonometry, you may feel that you want something more challenging than A level Maths. In that case, Further Maths is for you! Typically the students who choose Further Maths are hoping to study Maths, Finance, Economics, Engineering, Physics, Medicine, Architecture or other subjects which demand excellent maths skills.

Course Content

Further Maths is easily tailored to the class. It will include further pure and a combination of:

- more Further Pure
- Further Statistics
- Further Mechanics
- Decision Maths.

Further Pure Maths covers topics such as complex numbers, matrices, numerical methods, polar coordinates, differential equations, hyperbolic functions, conic sections, vectors and multivariable calculus. Due to the small group sizes, the applied units are chosen to suit the interests of the students where possible.

In Decision Mathematics we study problems that require the use of algorithms to solve them. Many of these problems, such as maximizing profits or the timetabling of events, arise every day in the world of business.

Note that if you wish to study Maths and Further Maths, some universities require two other A levels in addition.



Possible Career Options

- Accountancy
- Dentistry
- Medicine
- Engineering
- Technology
- Banking
- Acoustic consultant
- Actuarial analyst
- Astronomer
- Chartered Accountant.
- Chartered Certified Accountant.
- Data Analyst.
- Data Scientist
- Investment Analyst
- Research Scientist (Maths)
- Secondary School Teacher
- Software Engineer
- Sound Engineer
- Statistician

Assessment

Assessment is by written exams only. A calculator can be used for any exam.



MODERN LANGUAGES

Head of Department:

Mrs H Molloy, BA (Hons) Southampton & MEd Exeter

Examination Board: AQA

Why Study Modern Languages?

Knowing a foreign language opens doors and broadens the mind. You will build on the skills learnt at GCSE and go on to gain a profound understanding of your chosen language, as well as a greater cultural awareness of the countries and communities where they are spoken. Your communication skills will improve, as well as your ability to appreciate the ideas of other people. Equally importantly, you will reflect on current social, cultural and political issues. A foreign language complements any other A level subject and provides a sound base for further study.

Course Content

The course covers topics centred around social issues and trends, artistic culture and political life within the countries and communities where the language is spoken and this includes the study of literature and/or film. Study of these topics will help you to develop your listening, reading, speaking and writing skills, so that you can understand and discuss different points of view, some of which may be controversial. The A level also includes an independent research topic on a subject of personal interest which will be assessed in the speaking exam. Translation, which is an extremely useful skill in business, will also feature. There will be dedicated grammar lessons which will enable you to use the language independently and creatively as well as improve your ability to translate into English and into the language of study. In addition to lessons with your subject teacher, there will be weekly lessons with the Foreign Language Assistant to improve your confidence and fluency when speaking the language.



Possible Career Options

The ability to speak a foreign language can put you at a real advantage in a competitive job market as it is highly valued by employers, demonstrating wider cultural awareness, adaptability, problem solving and good communication skills (both written and oral). Study of a Modern Foreign Language at A level can lead to a variety of career paths in the UK or abroad, in areas including:

- Law
- Journalism
- Business
- Education
- Diplomacy
- Intelligence services
- Politics
- Armed Forces
- Writing
- Media
- Sociology

Assessment

- 1: Listening, reading and writing 50%
- 2: Writing, 20%
- 3: Speaking, 30%



MUSIC

Head of Department:

Mrs J Ellwood, GRSM (Hons), DipRCM, PGCAPerf-
The Royal College of Music, QTS Reading

Examination Board: Edexcel

Why Study Music?

If you enjoy playing an instrument or singing, like exploring and creating your own music, enjoy listening to all kinds of music and are interested in how music has developed then A level Music could be for you. You will find the course stimulating and enriching with plenty of opportunities to develop your own individual skills, through performing both individually and as a group, developing your analytical, listening and appraising skills and creative composition.

Course Content

The course is divided into three sections of which 60% is course work.

Component 1 Performing (30% NEA) You will learn skills and gain experience in performing both individually and in ensembles. The performance can be solo and/or ensemble, with a total performance time of eight minutes.

Component 2 Composing using Music Technology (30% NEA). You will learn to compose in a wide range of styles using Sibelius and Cubase. You will produce two compositions, one free or free choice brief – minimum four minutes. One brief assessing technique – minimum two minutes. Together total minimum of six minutes.

Component 3 Appraising (40% Exam) You will study six areas of study with three set works in each, plus wider listening. • Vocal Music • Instrumental Music • Music for Film • Popular Music and Jazz • Fusions • New Directions.



Possible Career Options

- Music education
- Music Therapy
- Sound Technician
- Film, TV, Gaming Composer
- Song Writer
- Performer
- Conductor/Choral Director
- PR music marketing
- Orchestral/Pop Manager
- Music Theatre

There will be many opportunities to go to concerts featuring music from classical to jazz and the non-Western tradition, as well as visits to the opera and musical theatre.

Assessment

Component 1: Total of 60 marks (12 marks available for difficulty of pieces).

Component 2: Two pieces 40 marks and 20 marks. Total of 60 marks.

Component 3: Two-hour exam - Total 100 marks.



RELIGIOUS STUDIES

Head of Department:

Mrs C Woolner, BA (Hons) Durham, PCGE

Examination Board: Edexcel

Why Study Religious Studies? (inc Philosophy, Religion & Ethics)

This course comprises a study of some of the major questions which have faced mankind throughout the centuries, such as 'Does God exist?' and 'What is the right action?'. You will learn to explore and evaluate a range of scholarly views to develop and substantiate your own conclusions. Along the way you will also develop key skills of critical analysis, research and written argument.

Course Content

Philosophy of Religion

- Arguments for the existence of God
- Religious experience
- Problems of evil and suffering
- Religious language
- Life after death
- Science and Religion.

Religion and Ethics

- Environmental ethics
- Equality
- A study of three ethical theories
- War and peace
- Sexual ethics
- Meta-ethics
- Medical ethics.

New Testament Studies

- Prophecy
- The context of the New Testament
- Interpretation of text, miracles and the person of Jesus
- The Kingdom of God, conflict, the death and resurrection of Jesus
- Ethical teachings.



Possible Career Options

Studying Religious Studies at A level may lead to careers in the following:

Law
Politics
Journalism
Charity work
Education

The skills and knowledge gained through an A level in Religious Studies can also be used to support many different career paths, for example careers in the Police, Armed Forces or Medicine.

Assessment

Three written examinations:

Philosophy of Religion – 2 hours - 33.3% of the marks – 80 marks.

Religion and Ethics – 2 hours – 33.3% of the marks – 80 marks.

New Testament Studies – 2 hours – 33.3% of the marks – 80 marks.



PHYSICAL EDUCATION

Head of Department:

Mr M Humphrey, BSc (Hons) Portsmouth

Examination Board: OCR

Why Study Physical Education?

This course builds upon your experience from Key Stage 4 and GCSE to enhance your knowledge and understanding of the factors that affect performance and participation in Physical Education. The course delves deeper into the physiology behind optimal sports performance, as well as the psychological process surrounding arousal, anxiety and information processing and acquisition of skills. We also look into the history of sport up to the 21st Century and how sport has become more of a commodity. This qualification covers a wide range of topic areas and allows you to play to your strengths and gain dynamic theoretical and practical skills for further education or work.

Course Content

- **Component 1:** Physiological factors affecting performance – Applied Anatomy and Physiology, Exercise Physiology and Biomechanics.
- **Component 2:** Psychological factors affecting performance – Skill Acquisition and Sports Psychology.
- **Component 3:** Socio-cultural issues in physical activity and sport – Sport and Society and Contemporary Issues in Sport.
- **Component 5:** Practical or Coaching Performances (NEA).
- Component 6: Evaluating and Analysing Performance for Improvement (EAPI) (NEA).



Possible Career Options

- Sports Scientist – Physiology or Biomechanics
- Personal Trainer
- Dietitian
- Therapist
- Sport Development
- Professional Coach
- Fitness and Leisure Industry
- Physiotherapy
- PE Teaching
- Sport Management

Assessment

Three written examinations:

1. Physiological Factors Affecting Performance (two hours) - 30%
2. Psychological Factors Affecting Performance (one hour) - 20%
3. Socio-cultural Issues in Physical Activity and Sport (one hour) - 20%

As well as: Practical Performance (one sport) and Evaluation and Analysis of Performance for improvement (EAPI) - 30%



PHYSICS

Head of Department:

Mrs F Blackmore, BEng Brunel

Examination Board: Edexcel

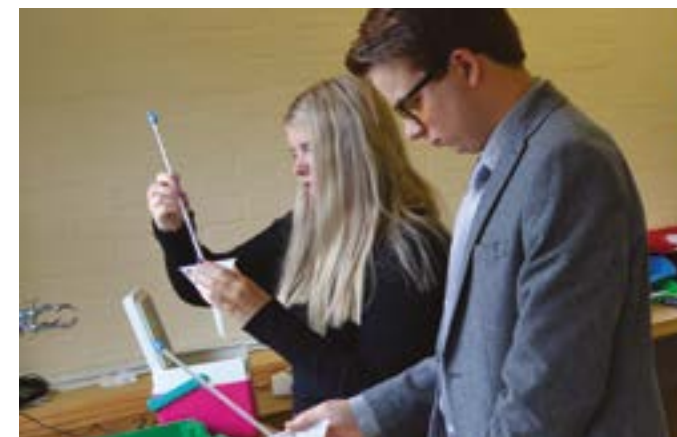
Why Study Physics?

Physics will provide you with knowledge and skills that will always be highly valued by employers and educational establishments around the world. It provides the basis of all scientific study and becomes increasingly important as we delve deeper into any scientific discipline. Physics is the study of matter, energy, space and time and so deals with the behaviour of the smallest particles to the whole universe. Study Physics to broaden your knowledge, mind and opportunities.

Course Content

- Working as a Physicist
- Mechanics
- Electric Circuits
- Materials
- Waves and Particle Nature of Light
- Electric and Magnetic Fields
- Nuclear and Particle Physics
- Thermodynamics
- Space
- Nuclear Radiation
- Gravitational Fields
- Oscillations.

Throughout the course you will carry out practical work. In so doing, a range of practical skills will be developed and this will enable achievement of an additional qualification in practical competency entitled "Science Practical Endorsement".



Possible Career Options

Armed forces and defence solutions

- Astronomy
- Education
- Engineering
- Medicine
- Meteorology and climate change
- Nontechnology
- Oil and Gas
- Renewable energy
- Scientific Researcher
- Space exploration industries
- Telecommunications

Physics graduates are particularly attractive to companies outside the scientific industries because of their skills in analysing information and solving complex problems, and their high levels of numeracy and computer literacy. Well-paid careers can be found in the banking, insurance and accountancy sectors, as well as the software, computing and consultancy industries.

Assessment

Three written exams:

- Paper 1 - One hour 45 minutes (30% of A level)
Paper 2 - One hour 45 minutes (30% of A level)
Paper 3 - Two hours 45 minutes (40% of A level)



POLITICS

Head of Department:

Mr S Phillips, BA (Hons), York

Examination Board: AQA

Why Study Politics?

There has never been a more complicated time in British and International politics. Brexit and Covid have entirely shaken up the political status quo. Likewise, in international relations, there is a new US President, China is increasing its power, Russia is seeking to play more of a global role and the impact of climate change is barely understood but will be huge. The course is increasingly relevant in the modern world. If you are intrigued, excited or worried about the changes that will happen in your lifetime, this is the course for you.

Course Content

The Government in the UK: The British Constitution, structures and role of Parliament, the Prime Minister and cabinet, the judiciary and devolution.

The Politics of the UK: Democracy and participation, elections and referendums, political parties, pressure groups and the European Union.

Government and Politics in the USA: The constitutional framework of US government, Congress, the President and the Executive, the judiciary, the electoral process, political parties, pressure groups and civil rights.

Comparative Politics: A comparison of constitutional arrangements, the executives, the judiciaries, electoral and party systems, pressure groups and civil rights of the UK and USA.

Political Ideas: Core ideologies - conservatism, socialism and liberalism. Non-core ideologies - nationalism, feminism, multiculturalism, anarchism and ecologism.



Possible Career Options

Politics is a highly regarded academic qualification and can be used to enter a huge variety of university courses and careers. Recently, many politics students have chosen to study subjects such as law, journalism, history, criminology or politics itself.

Assessment

Paper 1: Government and Politics of the UK

Written examination - two hours 77 marks

33.3% of A level

Paper 2: Government and Politics of the USA and

Comparative Politics

Written examination - two hours 77 marks

33.3% of A level

Paper 3: Political Ideas

Written examination - two hours 77 marks

33.3% of A level.

PSYCHOLOGY

Head of Department:

Mrs Julie Rumble, BSc (Hons) Open

Examination Board: AQA

Why Study Psychology?

Psychology is the scientific study of the mind, and attempts to answer some of the questions that have plagued humans such as: What causes mental disorders? How does our brain work? What makes someone aggressive? Do children think the same way adults do?

While studying this course you will learn to answer the question above as well as a variety of skills to aid your own personal development. You will learn how to reflect on your own behaviours, enhance your understanding of others and the world around us and ultimately increase inclusivity.

Course Content

Year 12

- Social Influence
- Memory
- Attachment
- Psychopathology
- Approaches
- Biopsychology
- Research methods.

Year 13

- Issues and Debates
- Cognition & Development
- Schizophrenia
- Aggression
- Research methods.



Possible Career Options

Directly linking to Psychology:

- Psychologist (Sports, Clinical, Forensic, Educational, Occupational)
- Psychiatrist
- Mental Health Nurse
- Counsellor
- Psychology Teacher

Indirect options:

Doctor, Law, Policing, Human Resources, Social Worker, Religious Leader, Nursing, Creative Arts, Youth Worker, Marketing, Business Management.

Assessment

Three examinations at the end of the second year, each worth 33.3% of the A level. Exams consist of multiple choice, short answer and extended writing questions.

- Paper 1- Memory, Social influence, Attachment, Psychopathology (two hours)

- Paper 2- Approaches, Biopsychology, Research methods (two hours)

- Paper 3- issues and debates, relationships, addiction, schizophrenia, research methods (two and a half hours).



TEXTILES DESIGN

Head of Department:

Mrs C McCafferty, HND CertEd Mfl QTLS

Examination Board: TBC

Why Study Textiles Technology?

A level Textiles Design is a versatile course that involves the creation, selection, manipulation and application of a range of materials and processes in order to produce fabrics and products for different purposes. You will work in an exploratory way to create ideas, concepts, materials and techniques for different purposes such as; fashion items, accessories and clothing for film/theatre, technological innovation, Interior design, fine textile art, soft sculpture and wall hangings.

Course Content

The course is a self-driven journey during which you will develop ideas through the analysis of existing/past designers' work and your own personal experiment. You will be encouraged to use a range of materials and techniques to present your thoughts, ideas and observations. You will demonstrate clear intention of ideas through drawing and presentation techniques and sensitive manipulation of materials. You will produce work that is a personal response to set themes that you have helped choose. Disciplines include pattern cutting, print design and making, resist techniques, sublimation printing, embellishment and felt making. You will be given time to work in most of these areas and develop a high command of skills. As part of the coursework, you will produce a piece of extended writing of between 1000 – 3000 words that relates to your coursework.

It is advised that students have studied either Art or Art and Design Textiles at GCSE level prior to embarking on the A level Textiles Design course.



Possible Career Options

Students who study this course go on to further study in a wide variety of careers, for instance;

- Fashion Designer
- Fashion Buying
- Textile Technologist
- Interior Design
- Fashion Retail
- Fashion Marketing
- Costume Design
- Wardrobe Manager for theatre or television
- Visual Merchandiser
- Printmaker.

Assessment

Assessment is at the end of the two-year course. Students are given 12 weeks to develop ideas through sketchbook research from a theme set by the exam board. The externally set paper is a 15-hour examination.



THREE DIMENSIONAL DESIGN

Head of Department:

Mrs C McCafferty, HND CertEd Mfl QTLS

Examination Board: Edexcel

Why Study 3D Design?

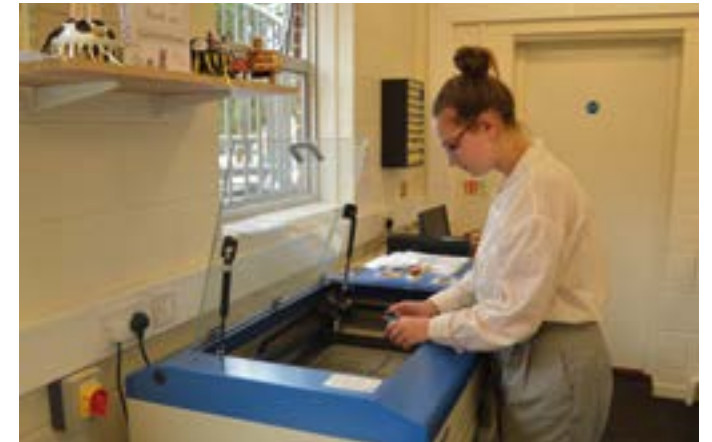
The 3D Design A level is an engaging, creative course that enables students to explore a wide range of materials and processes to design and make three-dimensional outcomes. The outcomes can be decorative or functional pieces which could include architecture, furniture or set design, functional products or sculptures utilising a wide range of materials where students are encouraged to experiment and problem solve. Starting points include nature, architectural and man-made structures. Further studies may also include shape, form, surface and texture.

Course Content

Most projects will start with some visual research which will involve drawing and photographing man-made and natural objects or environments. You will investigate the work of other designers and artists and develop an understanding of historic and contemporary creative practices. You will be introduced to a range of materials and process methods such as woods, metals and plastics and you will learn how these can be manipulated and combined to create new and innovative 3D outcomes.

Projects might include:

- Architectural: exteriors, interiors set designs and landscape.
 - Product Design: transport, consumer goods, lighting, furniture.
 - Ceramics: functional, ornamental and sculptural pottery.
- During the project work you will develop a personal direction within your creative work. You will generate a design brief and record and explore your ideas using sketches and maquettes to communicate your concepts.



Possible Career Options

Students who study this course go on to further study in a wide variety of careers, for instance;

- Architecture
- Interior/Spatial Design
- 3-dimensional Design
- Product Design
- Exhibition Design
- Design for Television
- Stage and Film
- Model-making / Prototyping
- Environmental Product Design
- Sculpture
- Furniture Design
- Transport Design
- Ceramics.

Assessment

The Controlled Assignment students are given 12 weeks to develop ideas through sketchbook research from a theme set by Edexcel. The externally set paper is a 15-hour examination.



EXTENDED PROJECT QUALIFICATION

Head of Department:

Mrs H Hinz, BA (Hons), MA Hull

Examination Board: AQA

Why Study the Extended Project Qualification (EPQ)?

This is an optional qualification that all students are encouraged to follow, as many universities are now taking the EPQ into consideration when making their offers. Some universities make a lower offer provided the EPQ is completed to a high standard and other universities are very happy to accept the UCAS points afforded the EPQ.

Delivery of the Extended Project Qualification involves some teaching of the necessary skills, supervision and assessment of the student's progress. The key skills studied are not only necessary to complete the project but are also incredibly useful when moving on to study at university. Students learn skills helpful when writing dissertations as well as presentation skills.

Course Content

You will be required, with appropriate supervision, to:

- choose an area of interest (this is usually, but not necessarily, an area which complements possible topics to be studied at university).
- draft a title and aims of the project for formal approval by the centre.
- plan, research and carry out the project (this is usually a 5000 word essay).
- deliver a presentation to a non-specialist audience (approx. 15 minutes).
- provide evidence of all stages of project development and production for assessment.



Examples of Past Projects

- Can I create a healthy snack bar for young children between the ages of 5-10 years old?
- Should human germline gene editing be supported or stopped?
- Is intelligence inherited?
- Can I effectively design the lighting for the school production of 'Grease', incorporating other backstage disciplines using Howell Binkley as my practitioner?
- Is it ethical to breed dogs with obstructive airways syndrome?
- To what extent does the microbiome affect human health?
- How does the Pixar soundtrack provoke emotion and what affect does this have on the viewer?
- Is ME a Psychological or a Biological illness?
- To what extent can paediatric psychology be considered a success?
- Is the cost of space exploration worth it?
- How Important is it for a Third Culture Kid to Have a Sense of Home?

Assessment

- Written essay
- Presentation
- Completed project log



Luckley Sixth Form Application Process (*External applicants*)

- You will be invited to attend our Sixth Form Introduction Evening in the autumn term.
- Upon application please also complete a registration form and pay the £100 registration fee – available on our website at: www.luckleyhouseschool.org/registration-form.
- You will be asked to complete a Sixth Form planning sheet with details of subject choices and scholarship applications (Academic, Sport, Art, Drama and Music). Please note that if you apply after November then you will not be considered for any scholarship.
- A reference request will be sent to your current school, which will include confirmation of your predicted GCSE grades.
- You will be invited to attend an interview with the Head of Sixth Form to discuss your options.
- You will be invited to attend a Taster Day, taking part in lessons on your chosen subjects. .
- You will receive a letter of conditional offer if a place is available subject to references.

Please email your final GCSE results to the Head of Sixth Form in August (Richard.Batrick@luckleyhouseschool.org). Your offer of a place will be confirmed on receipt of satisfactory references and GCSE results.

You will then be required to complete and return a formal acceptance form and pay the £600 deposit (This will be refundable against the final term's fees).

Entrance Criteria

Demonstrate the ability to achieve the minimum entry standards (five Grade 9-4 at GCSE). Demonstrate potential to gain a Grade 5 at GCSE for your chosen subjects.



"I BELIEVE I CAN WIN A BAFTA"

JOSEF



"I BELIEVE I CAN PLAY IN THE FA
WOMEN'S SUPER LEAGUE"

LOLA





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