2019/20

www.whitbysixthform.org

THE WHITBY SIXTH FORM

6

2019/20

DEAR STUDENTS

On the next page are the options blocks for Year 12 2019/20. Students will study three subjects for two years. They can choose one subject from any one block. There is some entry guidance with each subject. The usual entry pattern into Y12 is a base of 4+ in GCSE English and Maths alongside additional requirements for each subject. We always base our final decision about accepting onto courses on our knowledge of the students, their performance throughout school and our experience in guiding and supporting subject choices. Students will be entered for a resit GCSE English or Maths if they just miss their 4.

All of our courses are Level 3 – this means that they are either 'A' Level or equivalent. Subjects prefixed with 'L3' are now known as Applied General subjects. These are more coursework and skills-based with a small examined component. Universities and employers readily accept all of the qualifications on offer, all carry UCAS points for university applications. As a guide – a Distinction* in a L3 course carries the same number of UCAS points as an A* at A' Level.

Students can choose to study a full A' level, full L3 or a combination programme. They should choose what they enjoy and will succeed in, as well as keeping in mind the subjects that they need for specific ambitions. There is some really useful information here https://university.which.co.uk/advice/a-level-choices.

The subjects offered on the next page are offered on the basis of sufficient numbers of students opting. Courses may not run if numbers are too low.

Mr B Heeley
Headteacher

COURSES

OPTIONS TABLE

	L	M	N	P	Q
YEAR 12	MATHS	PHYSICS	CHEMISTRY	PRODUCT DESIGN	BIOLOGY
	GEOGRAPHY	HISTORY	ENGLISH LITERATURE / LANGUAGE	PSYCHOLOGY	GERMAN
	L3 MEDIA	L3 BUSINESS	PHOTOGRAPHY	L3 TRAVEL & TOURISM	L3 ART & DESIGN
	L3 APPLIED SCIENCE	L3 FOOD & NUTRITION	L3 ENGINEERING	MATHS	ECONOMICS
	L3 PERFORMING ARTS	L3 ICT	L3 APPLIED SCIENCE	L3 ICT	FRENCH
	L3 HEALTH & SOCIAL CARE	GRAPHIC COMMUNICATIONS	L3 MUSIC		L3 SPORT
			FASHION		

LEVEL 3 NATIONAL CERTIFICATE IN ART & DESIGN

COURSE CONTENT

Students will be introduced to a variety of experiences that explore a range of fine art media processes and techniques and made aware of both traditional and new media.

Students will explore the use of drawing for different purposes, using a variety of methods and media on a variety of scales. You will use sketchbooks / workbooks / journals to underpin their work where appropriate.

The course will explore relevant images, artefacts and resources relating to a range of art, craft and design, from the past and from recent times, including European and non-European examples.

ENTRY REQUIREMENTS

Ideally Grade 9-5 at GCSE, but students with Grade 4 are welcome provided they show motivation and commitment. Students with no GCSE in art are also welcome, but should also show commitment, and prove they have an aptitude for the subject. Students will need to show a portfolio of their own work.

CAREER OPPORTUNITIES

Everything has been designed by somebody- the art and design industry is huge, employing a vast number of people.

For example, Interior/Industrial Design, Commercial Design, Television, Theatre and Film industry Special Effects, Costume, Make-Up, Set Design, Animation, Architecture, Garden and Exterior Design, Teaching, Art Gallery Curating and Management, Artist, Illustrator- to name but a few.

WHICH SUBJECTS LINK WELL

Photography which is particularly suitable for those students wishing to pursue a course of study and/or career in Art and Design, Product Design, Graphics and Textiles. Mathematics especially for those considering Architecture, Media Studies.

LEVEL 3 EXTENDED CERTIFICATE IN APPLIED SCIENCE

COURSE CONTENT

Students will be studying the Extended Certificate pathway, which requires 360 credits.

- Principles and Applications of Science
- Practical Scientific Procedures and Techniques
- Science Investigation Skills
- Human Regulation and Reproduction

ENTRY REQUIREMENTS

Students should have at least 4s in Science, Maths and English GCSEs.

CAREER OPPORTUNITIES

Studying BTEC Applied Science provides students with the required knowledge to gain a place at University in many Science based degrees such as Forensic Science. There is also a great opportunity to gain employment or Apprenticeships in the Chemical or Science industry with this qualification.

Student should who study this should be good Independent learners, have good attendance and be able to manage their time effectively.

WHICH SUBJECTS LINK WELL

BTEC Applied Science links in well with other Science subjects and other BTEC Level 3 courses. This is a useful course for students who have an interest in Science, are organised, hardworking, and good at producing coursework.

A LEVEL BIOLOGY

COURSE CONTENT

In Biology you will develop practical skills, by planning experiments, collecting data, analysing experimental results and making conclusions. You will also learn how scientific models are developed, the applications and implications of science, the benefits and risks that science brings and the ways in which society uses the science to make decisions.

These qualifications are linear. Linear means that students will sit all the AS exams at the end of their AS course and all the A-level exams at the end of their A-level course. You will study:

- Biological molecules
- Cells
- Organisms exchange substances with their environment
- Genetic information, variation and relationships between organisms
- Energy transfers in and between organisms (A-level only)
- Organisms respond to changes in their internal and external environments (A-level only)
- Genetics, populations, evolution and ecosystems (A-level only)
- The control of gene expression (A-level only)

ENTRY REQUIREMENTS

It is expected that you should have obtained at least a grade 6 in GCSE Biology or GCSE Combined Science. Students will need a 6 in Maths and English as numerical and mathematical skills are important in Biology.

You will also need to be able to communicate effectively, and be able to plan and carry out research and think critically about problems.

CAREER OPPORTUNITIES

Biology leads on to a wide range of courses and careers. Which could include an undergraduate degree in Life Sciences, Medicine, Environmental Science, Forensic Science and related courses.

Employment, for example in the areas of Biological Testing, Biotechnology, Independent Research, the Food Industry, Conservation, Environmental Management, Communication and Education.

LEVEL 3 CERTIFICATE IN BUSINESS

COURSE CONTENT

In Year 12 you will study for a Level 3 Certificate in Applied Business.

You will cover three units:

- Financial Planning and Analysis (external exam in January (re-sit opportunity in June)
- Business Dynamics (an internally centre assessed piece of work)
- Entrepreneurial Opportunities (externally assessed assignment)

In Year 13 you will study for a Level 3 Extended Certificate in Business.

In Year 13 you will cover three further units:

- Managing and Leading People (external exam in January (re-sit opportunity in June)
- Developing a Business Proposal (an internally centre assessed piece of work)
- E-Business implementation (an internally centre assessed piece of work)

ENTRY REQUIREMENTS

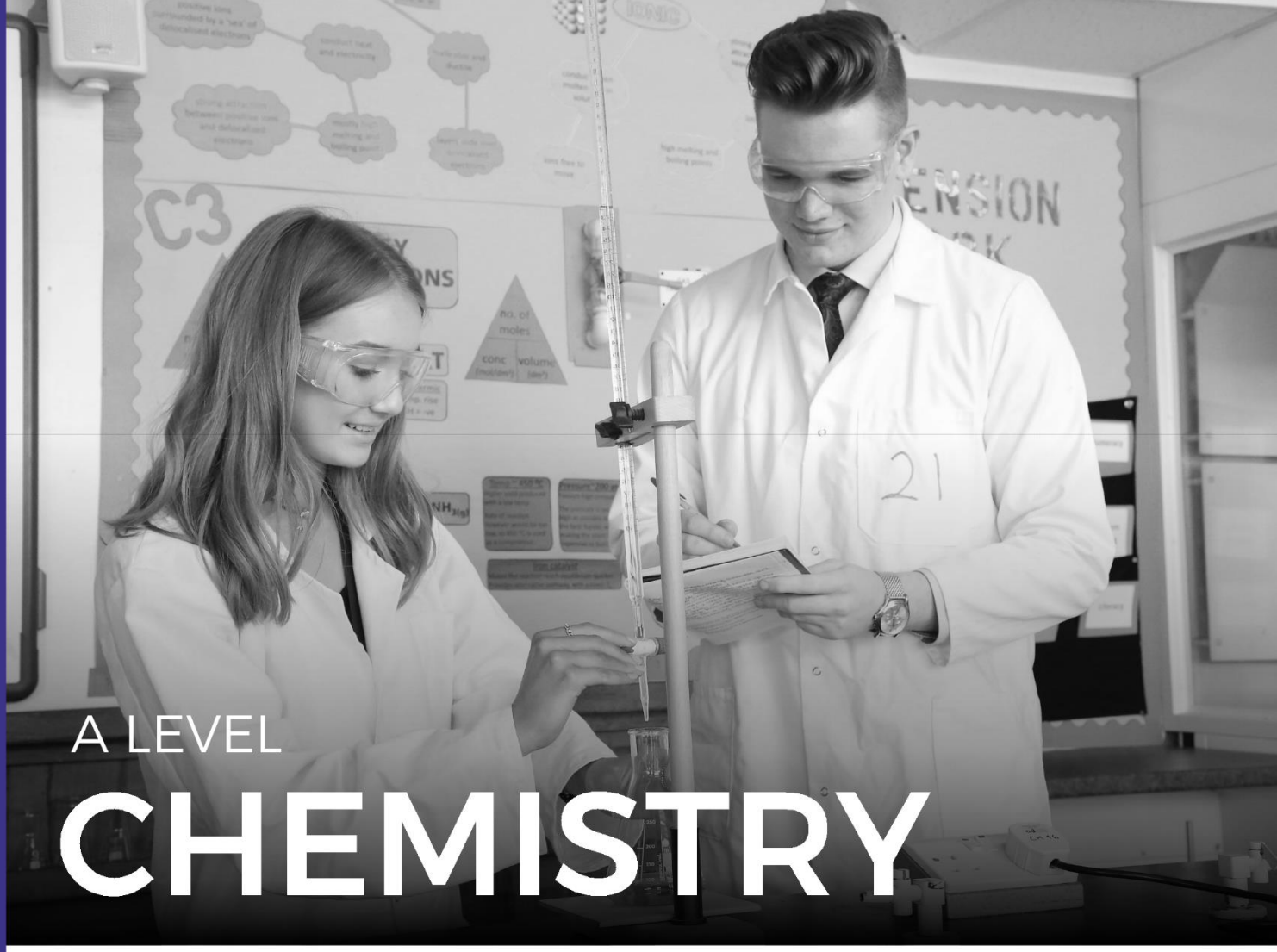
A minimum of grade 4 in Maths and English GCSE.

CAREER OPPORTUNITIES

Travel, Tourism, Leisure, Banking, Finance, Health Service, Education.

WHICH SUBJECTS LINK WELL

This subject links well with Travel and Tourism, Health and Social Care, Psychology and a range of other subjects.



A LEVEL CHEMISTRY

COURSE CONTENT

This is a two year course building on the Chemistry you will have studied at GCSE. You will study the Chemistry that is in the media and part of your life.

Year 1

Atoms Bonds and Groups:

- Atoms and Reactions
- Electrons, Bonding and Structure
- The Periodic Table Chains

Energy and Resources:

- Basic concepts and Hydrocarbons
- Alcohols, Halogen and Analysis Energy

Year 2

Rings, Polymers and Analysis:

- Rings, Acids and Amines
- Polymers and Synthesis, Analysis

Equilibrate, Energetic's and Elements:

- Rates, Equilibrium and pH
- Energy, Transition Elements

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ENTRY REQUIREMENTS

It is expected that you should have at least the equivalent of GCSE Grade 6 in Chemistry or Combined Science, and a GCSE Grade 6 in Mathematics and a GCSE Grade 5 in English.

Vocational course grades not considered.

CAREER OPPORTUNITIES

Many university courses have a significant proportion of Chemistry content and a GCE in Chemistry is will be useful.

Whilst many job opportunities specifically using Chemistry require higher qualifications, most laboratory-based jobs benefit from a chemistry qualification, for instance Dental Assistant or Veterinary Assistant. Many employers view success at GCE Chemistry as a clear indication of sound academic ability.

WHICH SUBJECTS LINK WELL

Most other subjects link well but especially Mathematics and other Science subjects.

LEVEL 3 SUBSIDIARY DIPLOMA IN CONSTRUCTION

COURSE CONTENT

It should be stressed that this is an academic course intended for those students who, later in life, wish to pursue a supervisory or design role in the industry such as Architect, Structural Engineer or Site Manager. Although there will be some hands on elements to some areas of the course.

The course consists of 4 units:

- Construction Principles
- Construction Design
- Construction Technology
- Health and Safety in Construction

ENTRY REQUIREMENTS

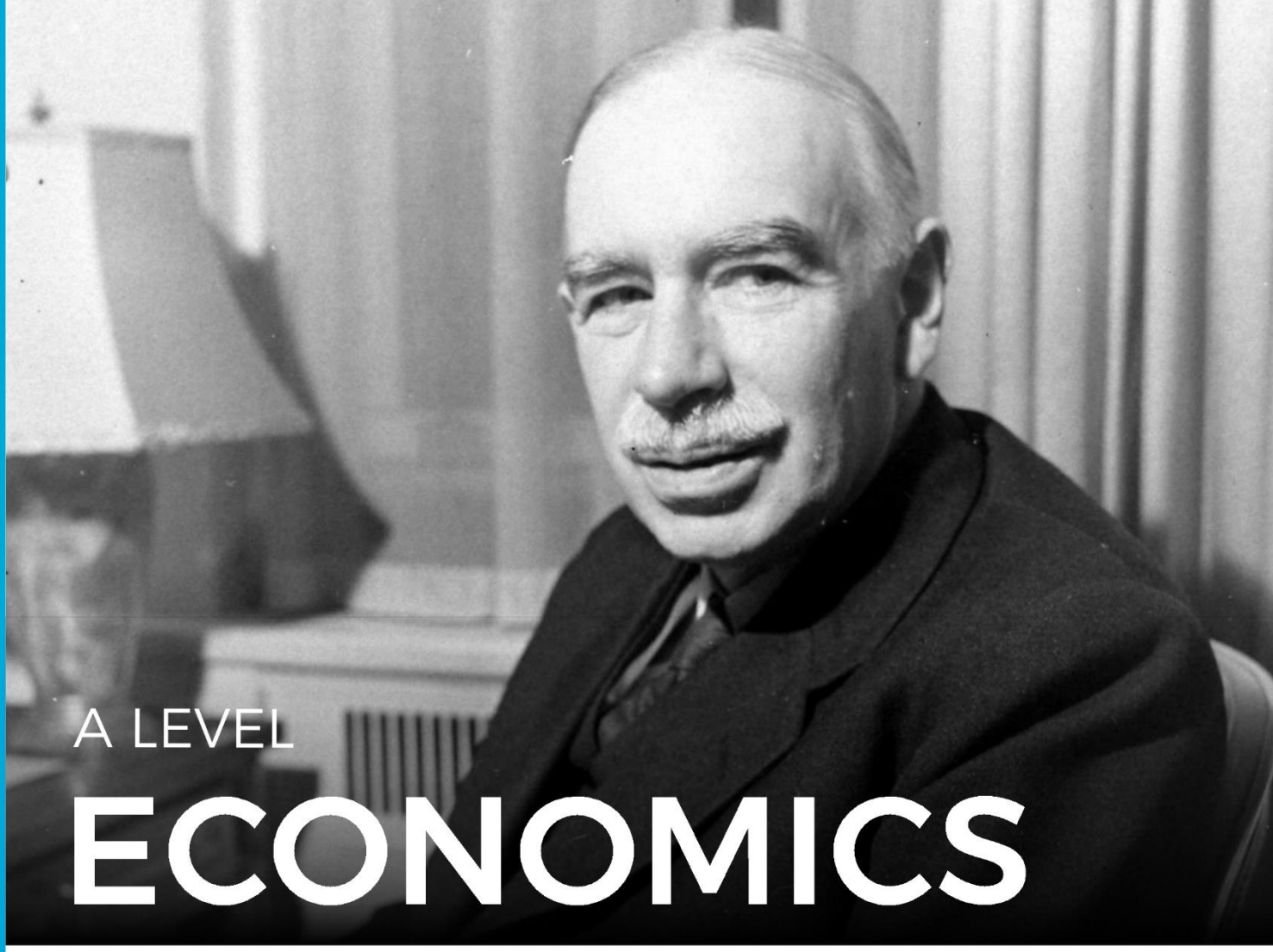
Because of the scientific and mathematical content of some of the units a good grade (at least level 4) at GCSE in these subjects would be needed to access this course. There is, however, no necessity to have studied Construction in Years 10 and 11.

CAREER OPPORTUNITIES

There are many job opportunities in the construction industry for non-craft personnel. In addition to those listed above there are many scientists involved in construction projects. Indeed, most construction projects begin with an investigation from a Naturalist, an Archaeologist and a Hydrologist. The range of potential job opportunities are too vast to list here you are advised to see Mr Morby for further details.

WHICH SUBJECTS LINK WELL

Science, Geography, Maths and Engineering all complement (and in turn are complemented by) this course.



A LEVEL ECONOMICS

COURSE CONTENT

The course will focus on three main areas.

- The Operation of Markets and Market Failure
- The National Economy in a Global Context
- Markets and Market Failure & National and 'International Economy

The Market System considers issues like needs, wants, scarce resources, the capitalist system, supply, demand, prices and incomes, later addressing issues of market failure like monopoly, inequalities in the distribution of income and wealth, under consumption of merit goods (things that are deemed good for us and society as a whole), over-consumption of de-merit goods (goods that are considered bad for us and society as a whole), the under provision of public goods, wasteful competition and externalities.

The National Economy focuses much more on those issues that we tend to hear much more about on the national news. Issues relating to unemployment, inflation, economic growth, the balance of payments, imports, exports, austerity, wages, employment and the government's attempt to steer our economy along a path to prosperity using the fiscal (taxes) and monetary (interest rates) instruments at its disposal.

The role of the Bank of England in all of this is a key area of learning, and the reasons why the then Chancellor of the Exchequer, Gordon Brown, made the Bank of England independent of the government with regard to interest rate policy.

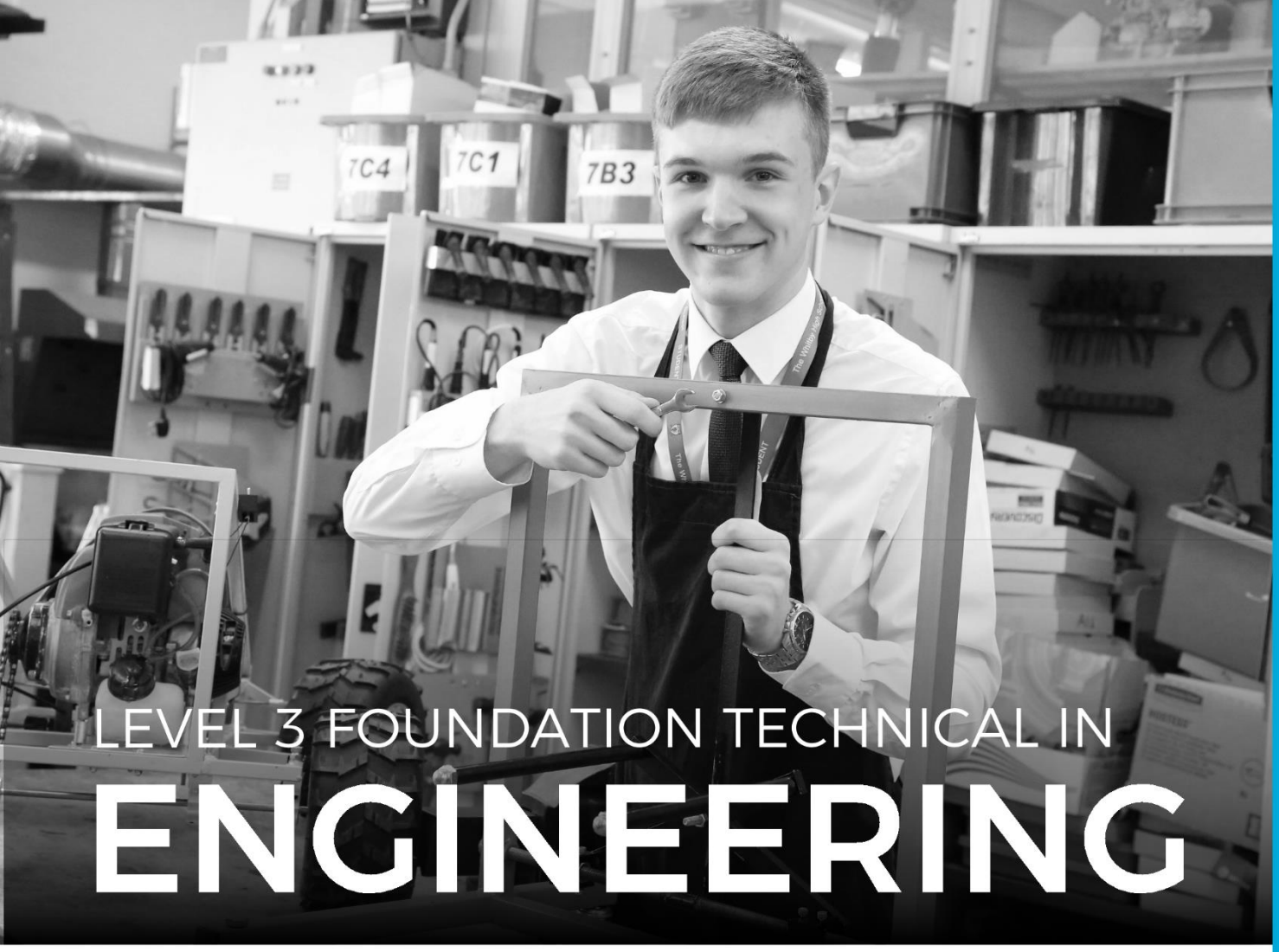
Students who are successful can then continue onto the full A-Level which involves the study of further units.

ENTRY REQUIREMENTS

An interest in current affairs and economics in particular is important. An interest in current affairs and economics in particular is important. Students should have at least 5s in English and Maths GCSE.

CAREER OPPORTUNITIES

Teaching, Health Service, Local Government, National Government, Financial Institutions (Accounting, Banking, Insurance), Travel, Tourism, Leisure.



LEVEL 3 FOUNDATION TECHNICAL IN ENGINEERING

COURSE CONTENT

Engineers are in great demand in the UK. The North West area and in particular Ellesmere Port have an abundance of opportunities for young people in engineering and manufacture.

The traditional engineering courses at Whitby have proved to be very successful in providing valuable knowledge, skills and experience for students wishing to pursue a career in Engineering.

This course replaces the old A level specification and is a two year course that follows on from studies at KS4 (*there is no accreditation for completing year 12 only).* The course comprises of four assessed units:

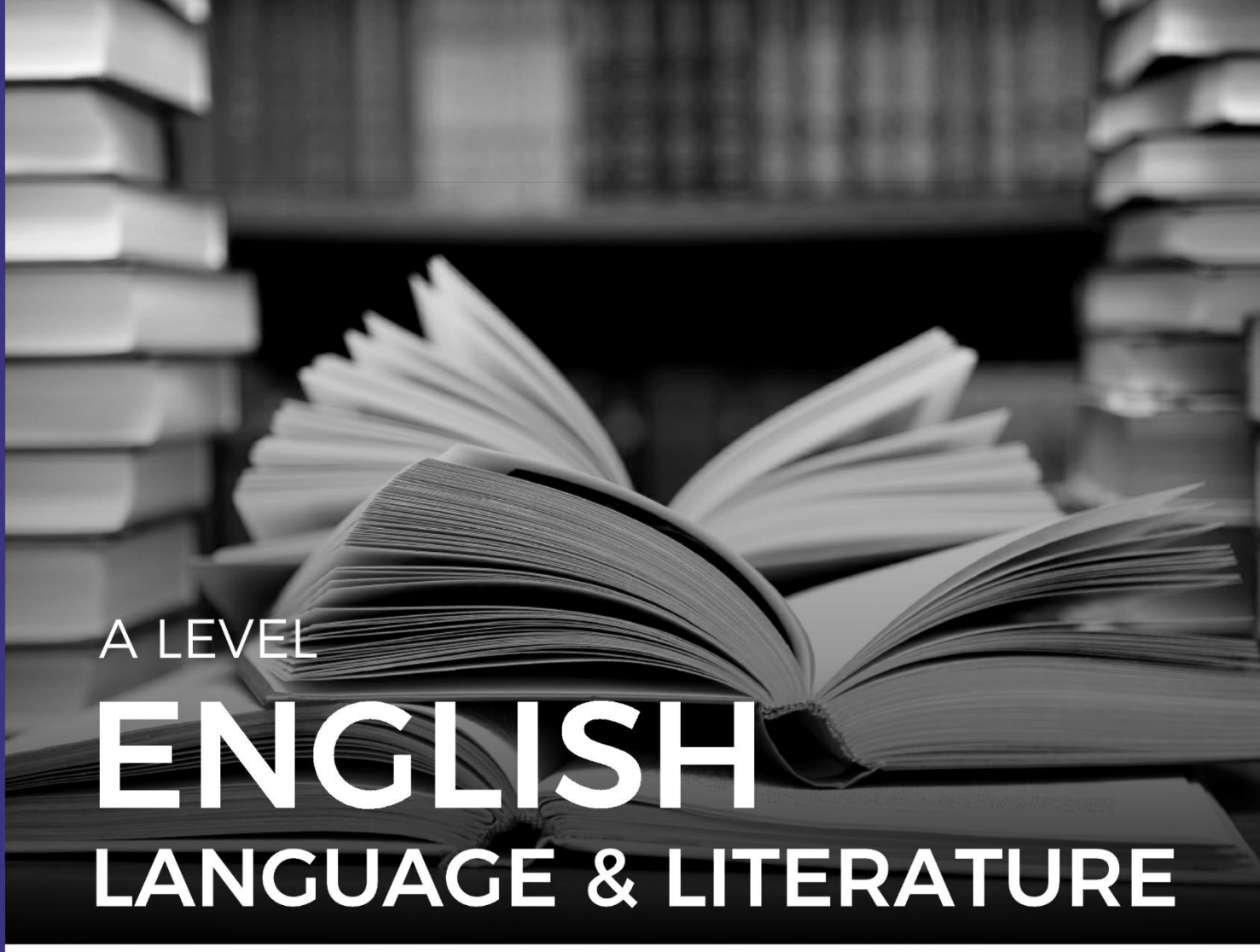
- Materials Technology and Science (External examination in June of Year 12).
- Mechanical Systems (Externally set and marked assignment submitted in June of Year 12).
- Engineering Design (Externally set, internally assessed design unit, submitted in June of Year 13).
- Production and Manufacturing (Externally set, internally assessed making unit, submitted in June of Year 13).

ENTRY REQUIREMENTS

There are no official entry requirement for this course, however we recommend a strength in both Maths and Physics, 4 or higher In English and previous experience in a D&T subject.

For further information on entry requirements see Mr Smith in Engineering.

The full specification for the subject can be found by searching for AQA Tech-level Engineering: Design TVQ01018 along with sample assessment material



A LEVEL ENGLISH LANGUAGE & LITERATURE

COURSE CONTENT

This stimulating A-level enables you to develop your understanding of English Language and Literature as a combined discipline. It will give you the chance to gain independent study skills, engage with a variety of texts and write creatively.

English is an exciting and important qualification which will enable you to develop your skills and abilities, providing you with progression routes to higher education, employment or further training. A-level English Language and Literature improves your ability to apply and integrate linguistic and literary approaches. You will develop techniques of analysis, evaluation and production of texts. You will explore:

- How language choices shape meaning in texts
- Ways in which texts are interpreted by different readers or listeners
- Ways in which texts relate to each other and to the contexts in which they are produced and received
- How to apply linguistic and literary methodologies and concepts to inform your responses to and interpretations of texts

ENTRY REQUIREMENTS

Students will need a combined English score of 10 or above – i.e. at least 5s in both English GCSEs.

CAREER OPPORTUNITIES

This course could be a valuable foundation for careers in areas such as Teaching, Publishing, Human Resources, Journalism, Public Services and Business Development.

A LEVEL FASHION & TEXTILES

COURSE CONTENT

An exploration of surface, texture, colour, materials and construction, Fashion & Textile Design offers a diverse and creative approach to fabric development framed by an understanding of professional contexts including fashion, interior and accessory design. Students explore visual information to develop creative investigations into textiles and fashion. Experimentation into techniques and processes includes stitch, print, dye and garment construction, to develop understanding of shape, form, pattern, texture and colour. All practical work is underpinned by critical analysis of appropriate sources. Students are encouraged to visit exhibitions and galleries. Research methods including drawing, collecting and mood boards will be used to generate a wealth of ideas.

Projects are devised to help students understand the fundamental process of design through research, sampling and developing ideas into unique and exciting outcomes. Students are encouraged to experiment with a range of materials and techniques including embroidery, fabric manipulation, printing and dyeing to create interesting surface patterns and textures that can be developed into garments, accessories, functional objects or pieces of art. All techniques and skills are taught through practical demonstrations; therefore, no experience of textiles is required but a GCSE in Art is desirable.

Component 1: Skills Development (60% of A Level)
Learners should produce two elements:
A portfolio of practical work showing their personal response to either a starting point, brief, scenario or stimulus, devised and provided by the learner or centre. A related study: an extended response of a guided minimum of 1000 words.

Component 2: Externally Set Task (40% of A Level)
The early release paper will be issued on 1st February and will provide learners with a number of themes, each with a range of written and visual starting points, briefs and stimuli. A response should be based on one of these options.

ENTRY REQUIREMENTS

A GCSE of 4+ in Product Design, Photography or Art would be beneficial.

CAREER OPPORTUNITIES

Textiles students can go on to study on Foundation courses in Art and Design, Costume and Stage Design, Marketing and Advertising, Illustration and Fashion and Textiles design.

SUBJECTS THAT LINK WELL

Art, Photography, Graphic Communications and Product Design link well to this course.

LEVEL 3 APPLIED DIPLOMA IN FOOD AND NUTRITION

COURSE CONTENT

An understanding of food science and nutrition is relevant to many industries and job roles. Care providers and nutritionists in hospitals use this knowledge, as do sports coaches and fitness instructors. Hotels and restaurants, food manufacturers and government agencies also use this understanding to develop menus, food products and policies that that support healthy eating initiatives. Many employment opportunities within the field of food science and nutrition are available to students who complete this course.

This is an Applied General qualification. This means it is designed primarily to support students progressing to university. It is mainly designed for those wanting to pursue careers or learning in related areas such as the food industry production.

This course is made up of internal (coursework) assignments and an externally assessed (investigational task) See the table below. If you have any further questions please talk to either Mrs Gunning or Miss Jones.

ENTRY REQUIREMENTS

The range of units available would support students' progression from study at GCSE, but in particular GCSE`s in Food and Nutrition, Biology, Sport and Humanities, however a qualification at this level is not essential.

CAREER OPPORTUNITIES

By studying for this certificate alongside other relevant qualifications at Level 3 e.g. Biology, Physical Education, Sociology, learners will gain the required knowledge to use the qualification to support entry to higher education courses such as:

- BSc Human Nutrition
- BSc (Hons) Nutrition and fitness
- BSc (Hons) Public Health Nutrition
- BSc (Hons) Food Science and Technology

WHICH SUBJECTS LINK WELL

Biology, Sport and Humanities

A LEVEL FRENCH

COURSE CONTENT

Throughout the course, there will be a real emphasis on France and the French speaking world. Students will study about families and citizenship, youth trends and personal identity. They will also complete units on education, employment and regional culture including media, art, film and music. Students will study a French film and a book. In addition students will cover topics such as diversity and difference and the post-war years in France 1940 – 1950.

ENTRY REQUIREMENTS

Grade 6 or above at GCSE level.

CAREER OPPORTUNITIES

Choosing a Modern Foreign Language at A Level has the potential to change lives and lead the student down an exciting path. There are numerous career opportunities from foreign languages, obvious examples are banking, marketing, advertising and tourist industries. Secretaries, sales staff, telephonists and airline staff all need languages. A foreign language is very desirable for scientists, Engineers and accountants. You will have a distinct advantage in the job market if you can offer a foreign language.

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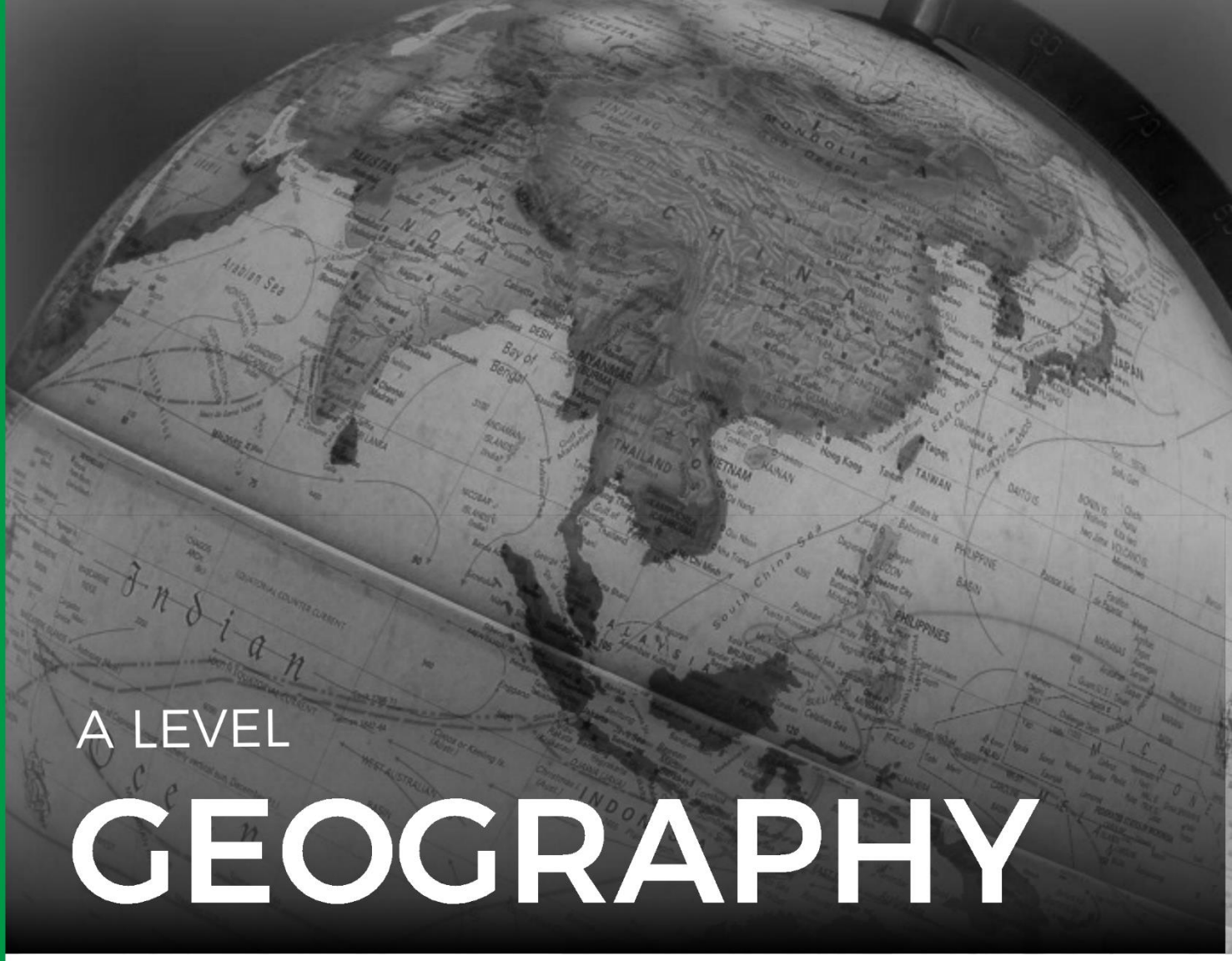
SUBJECT THAT LINK WELL

A Modern Language links well with a wide variety of subjects including English, History, Art, Economics, Sciences & Engineering.



A LEVEL GEOGRAPHY

COURSE CONTENT

Geography is highly valued by universities as an A Level choice. It combines well with both arts and science subjects. You may already be thinking ahead to potential university and career choices so it is worth bearing in mind that geography is a broad based subject that really fits well for your future progression. For example, for careers in sustainability and green issues, urban regeneration, energy supply, retail location, managing the effects of hazards and climate change, geography is an obvious choice.

- Changing landscapes and places.
- Coasts and urban processes and change.
- Global Systems and Global Governance.
- Oceans and Migration.
- Contemporary Themes in Geography.
- Tectonics, Ecosystems, Energy, India, China, African Nations and Weather and Climate.
- Non Examined Assessment - Project based.

Students will be taught using a number of different methods and there will be four compulsory days fieldwork, which will culminate in the production of a 4000 word project.

ENTRY REQUIREMENTS

To be able to follow this course you will require a grade 5 or higher in Geography, Maths and English.

CAREER OPPORTUNITIES

For careers in the world of business, an understanding of global economics forms an important part of geography. If you are thinking of a career in law, human rights, international relations or welfare then geography gives you the opportunity to consider relevant issues such as; How do we measure development? What are the consequences of migration on societies? If you are working towards a future course in medicine or veterinary medicine then geography is a good choice to give your A Level options the breadth that universities seek, as you will gain a clear understanding of how the environment affects health and survival of people, animals and ecosystems as well as enhancing your skills of writing essays and extended reports.

A LEVEL GERMAN

COURSE CONTENT

Throughout the course, there will be a real emphasis on Germany and the German speaking world. Students will study about families and citizenship, youth trends and personal identity. They will also complete units on education, employment and regional culture including media, art, film and music. Students will study a German film and a book. In addition students will cover topics such as diversity and difference and the making of modern Germany 1989 onwards.

ENTRY REQUIREMENTS

Grade 6 or above at GCSE level.

CAREER OPPORTUNITIES

Choosing a Modern Foreign Language at A Level has the potential to change lives and lead the student down an exciting path. There are numerous career opportunities from foreign languages, obvious examples are banking, marketing, advertising and tourist industries. Secretaries, sales staff, telephonists and airline staff all need languages. A foreign language is very desirable for scientists, Engineers and accountants. You will have a distinct advantage in the job market if you can offer a foreign language.

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SUBJECT THAT LINK WELL

A Modern Language links well with a wide variety of subjects including English, History, Art, Economics, Sciences & Engineering.

A LEVEL GRAPHIC COMMUNICATIONS

COURSE CONTENT

From typography to advertising and digital design to illustration, a broad and exciting programme has been developed here that focuses on the creative communication of ideas. This unique course gives you the chance to develop your skills in Graphic Communication through a variety of briefs aimed at different audiences.

Projects are devised to help students understand the fundamental process of design and gain a solid knowledge of all phases of the graphic communication processes, starting with research and thumbnails through to developing and refining designs to exciting and experimental outcomes.

You will be encouraged to consider the design process and think about the cultural, historical and technological influences that have shaped design and how this impacts your audience and influences your design. You will explore a range of materials and techniques including digital manipulation, photography, typography, illustration, layout, printing and packaging.

Component 1: Skills Development (60% of A Level)
Learners should produce two elements:
A portfolio of practical work showing their personal response to either a starting point, brief, scenario or stimulus, devised and provided by the learner or centre. A related study: an extended response of a guided minimum of 1000 words.

Component 2: Externally Set Task (40% of A Level)
The early release paper will be issued on 1st February and will provide learners with a number of themes, each with a range of written and visual starting points, briefs and stimuli. A response should be based on one of these options.

ENTRY REQUIREMENTS

All techniques and skills are taught through practical demonstrations although a GCSE of 4+ in Product Design, Photography, Art or any IT based subject would be beneficial.

CAREER OPPORTUNITIES

Graphic Communication students' progress on to Further and Higher Education courses in Art and Design. From there they gain exciting and dynamic careers in Graphic Design, Web Design, Interactive Design, Game Design and Animation.

SUBJECTS THAT LINK WELL

Art, Photography, Fashion & Textiles and Product Design link well to this course

LEVEL 3 NATIONAL IN

HEALTH & SOCIAL CARE

COURSE CONTENT

Students study four units:

- Human Life Span Development
- Working in Health and Social Care
- Meeting Individual Care and Support Needs
- Supporting Individuals with Additional Needs

Aims of the course:

- To develop and sustain an interest in Health and Social Care – issues affecting the care sector
- To gain knowledge and understanding of issues affecting the Health and Social Care sector
- To develop skills that will help you make an effective contribution to the Care sector, including research, evaluation and problem solving
- To apply knowledge and understanding
- To prepare for further study and training

Students complete a range of tasks including: making Posters, booklets, presentations, case studies, role play and reports. The use of computers to aid work presentation is encouraged.

ENTRY REQUIREMENTS

A 4+ in English at GCSE level is required.

Students need to:

- Be focused on their work and be able to keep to target deadlines
- Be prepared to complete guided research at home
- Have regular attendance at lessons

Students following this course will need to complete two separate weeks work experience in a suitable placement linked to Health & Social Care.

Students will be encouraged throughout the course to take responsibility for their own learning.

CAREER OPPORTUNITIES

Art and Design, Business, English, History, Information Technology, Drama.

A LEVEL HISTORY

COURSE CONTENT

The making of a Superpower: USA, 1865-1975

- The Era of Reconstruction & The Gilded Age
- From Civil War to World War
- Populism, Progressivism and Imperialism
- Crisis of identity
- Crises and the rise to World Power
- The Superpower

The Making of Modern Britain, 1951–2007

- Building a new Britain
- The Affluent Society
- The Sixties
- The end of Post-War Consensus
- The impact of Thatcherism
- Modern Britain
- Towards a new Consensus
- The Era of New Labour

Historical investigation 'The Revolution in France' (Non-Examination Assessment)

Through undertaking the Historical investigation students will develop an enhanced understanding of the nature and purpose of history as a discipline and how historians work.

ENTRY REQUIREMENT

A 6 in GCSE History and 5 in GCSE English.

WHICH SUBJECTS LINK WELL

English Language and Literature, Politics, Economics, Geography, Business and German.

LEVEL 3 EXTENDED CERTIFICATE IN INFORMATION TECHNOLOGY

COURSE CONTENT

You will learn a wide range of skills whilst studying this course, some examples include:

- The opportunity to acquire the essential knowledge and tools for the world of work by developing transferable skills such as planning, research and analysis, working with others and effective communication.
- The three mandatory units examine the more theoretical side of ICT and Business; you will acquire some of the skills needed to pursue an ICT related role in Business.
- Understand how systems can be key to the success of a business in organising their day to day processes.
- Acquire high level web design skills through designing and implementing your own website from scratch including all graphical content. You will also have the opportunity to examine more advanced skills such as cascading style sheets and inserting script such as JAVA into your website.

ENTRY REQUIREMENTS

Grade C or above in ICT at GCSE level

CAREER OPPORTUNITIES

This course provides a suitable foundation for the study of ICT or a related area through a range of higher education courses e.g. Information Technology, Information Systems, Creative Media.

Learners wishing to gain a Level 3 qualification to support further study in Further Education (FE) and Higher Education (HE) in ICT.

WHICH SUBJECTS LINK WELL

Media & Photography

A LEVEL MATHEMATICS

COURSE CONTENT

The course gives students the opportunity to understand mathematics and mathematical processes in a way that promotes confidence, fosters enjoyment and provides a strong foundation for progress or further study.

The course covers GCSE content to a higher ability and new topics including:

- Algebra and Functions
- Coordinate Geometry in the XY plane
- Proof
- Sequences and Series
- Trigonometry
- Exponential's and Logarithms
- Calculus
- Vectors
- Numerical Methods
- Mechanics
- Statistics

ENTRY REQUIREMENTS

A strong grade 6 in GCSE Maths and a strong grade 6 in English are required to study A Level Mathematics.

CAREER OPPORTUNITIES

Students in the last few years have gone on to study the following subjects at University:

- Mathematics
- Mathematical Sciences
- Accountancy and Finance
- Medicine, Business Information Technology
- Engineering
- Architecture
- Law
- Medical Engineering
- Civil Engineering

WHICH SUBJECTS LINK WELL

Biology, Psychology, Physics, Business and Geography

LEVEL 3 CAMBRIDGE TECHNICAL IN MEDIA STUDIES

COURSE CONTENT

Whilst studying the Level 3 Media Studies course students will learn a large array of authoring and editing skills in a variety of multimedia editing software packages. Some of the more common packages we use include Adobe Photoshop, The Serif Suite and various animation packages.

Some of the skills include graphic design, video editing, sound authoring and animation with clay and light boxes. The course aims to equip students with the skills needed to progress further at degree or foundation course level. It will also equip students with the skills needed to obtain an apprenticeship in this field. Two of our most recent students have gone onto secure apprenticeships with local firms working in a team producing promotional material and managing aspects such as their web and social media platforms.

The initial mandatory unit requires students to analyse media products including well known media institutions and the different media types available.

Students will research and plan a professional magazine and learn the skills needed to author a magazine to the standard and quality one would expect from a magazine bought from a general store. At a recent open evening parent's mistook the magazines our students had made for real world examples!

You will research the history of comic books and plan and develop a comic book featuring your own heroes and characters, you will expand further on your graphic design skills in the process.

You will research, plan and produce an animation and create your own characters in clay and then animate a scene with the addition of green screen/composite effects.

These are just some of the modules and content involved in the full two year course.

ENTRY REQUIREMENTS

Grade 4 or above in English and ideally you studied ICT at GCSE level.

WHICH SUBJECTS LINK WELL

ICT and Photography

LEVEL 3 EXTENDED CERTIFICATE IN MUSIC

COURSE CONTENT

This qualification is a two year course equivalent to one A level. The programme gives a broad overview of the music industry, with a focus on performance, including musical skills development and professional practice.

This qualification has been developed to ensure that it supports progression to higher education.

Students taking this qualification will study three mandatory units:

- Unit 1: Practical Music Theory and Harmony
- Unit 2: Professional Practice in the Music Industry
- Unit 3: Ensemble Music Performance.

Students choose one optional unit. These have been designed to support progression to more specialist music courses in higher education and to link with relevant occupational areas, such as:

- Composing Music
- Improvising Music
- Solo Performance

ENTRY REQUIREMENTS

GCSE or BTEC Level 2 Music and/or a genuine interest in music and or music performance.

CAREER OPPORTUNITIES

The UK music industry helps to create jobs and opportunities for young people.

Many students from The Whitby High School have gone on to study Music, Music Technology, Music Journalism and Music Performance at university.

Studying Music can lead to a good career as a performer, music industry management, sound/recording engineer, teacher, journalist, composer or creative within the arts, theatre, gaming and film.

LEVEL 3 CERTIFICATE IN PERFORMING ARTS

COURSE CONTENT

Performing Arts BTEC Acting is for students who are interested in learning about the performing arts sector, specifically focusing on the skill of acting. It allows students the opportunity to develop their performance and theory skills, with a view to progressing to a wide range of higher education courses. Students will study three mandatory units and develop their skills in performance and theory. Skills that will be developed include: performance, physical techniques, vocal techniques. Along with developing their practical skills they will deepen their understanding of the theory behind the practical approaches, honing their skills in: research, critical analysis and extended writing to support students' progression to higher education. Students will gain a good understanding of the work of influential practitioners to inform their own work and practice. Students will understand different audiences in different environments and will learn to adapt a performance to engage the target audience.

Units covered within the course:

Investigating Practitioners' Work - Students investigate the work of performing arts practitioners and develop critical analysis skills and contextual understanding of how practitioners communicate themes in their work.

- DevelopingSkillsandTechniquesforLivePerformance Students explore technical performance skills with a focus on developing skills and techniques in at least two performance styles.
- Group Performance Workshop - Students explore and integrate creative, physical and vocal skills and techniques, working collaboratively to create a performance in response to a given stimulus.
- Acting Styles - Students develop acting methods by exploring different acting styles. They will apply techniques to the development, rehearsal and performance of their practical work.

ENTRY REQUIREMENTS

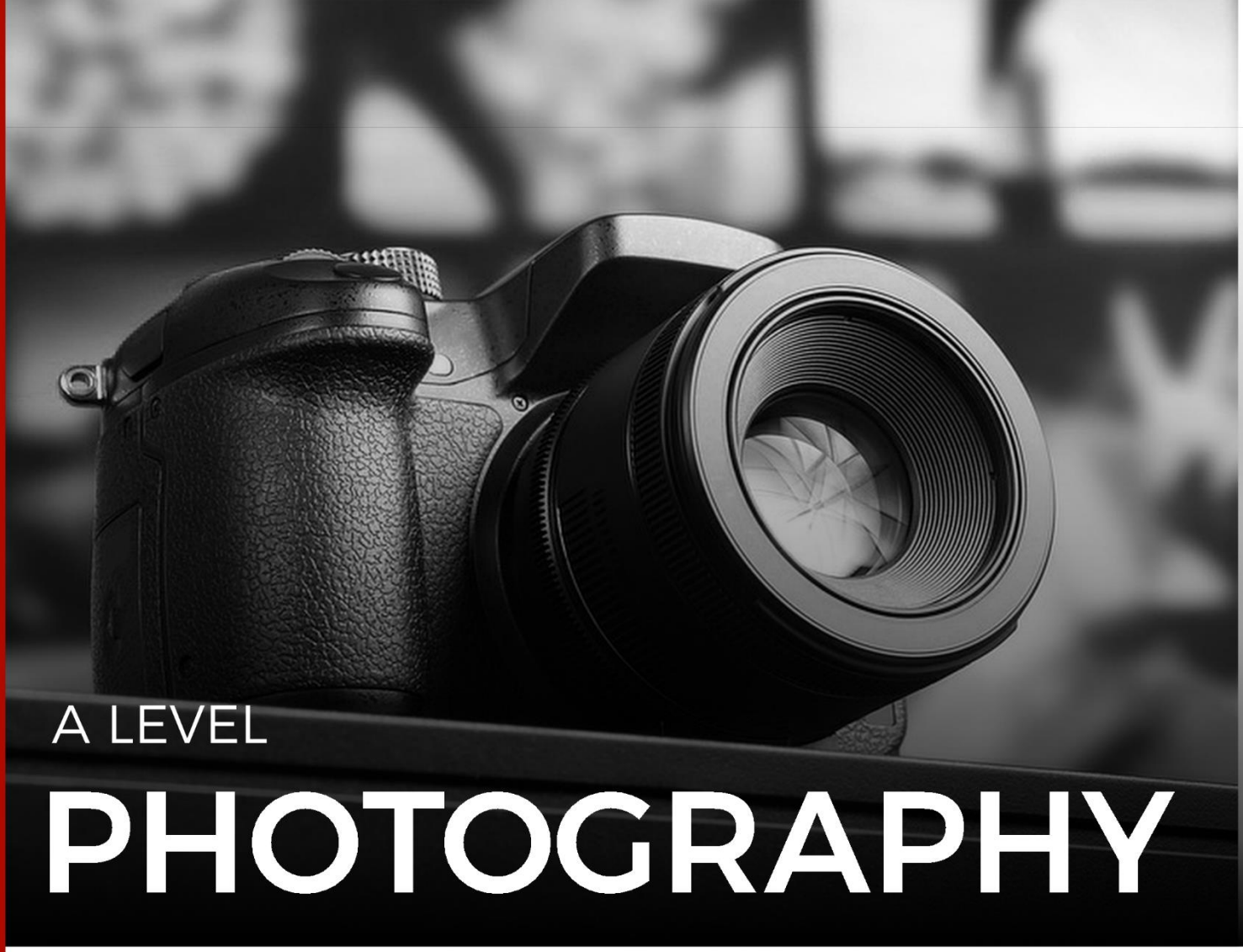
Merit at Level 2 or 5 at GCSE.

CAREER OPPORTUNITIES

Performance work, Directing, Teaching, Script writing/Editing, Journalism, Presenting, Radio, TV, Mentoring and careers that involve communication and empathy.

WHICH SUBJECTS LINK WELL

English, Creative Writing, Art, Music, Media.



A LEVEL PHOTOGRAPHY

COURSE CONTENT

The main practical focus of the Art and Design: Photography course is taking photographs and refining/manipulating them in computer software to produce personal and creative outcomes. Traditional and/or new media can be used to undertake documentary work, photojournalism, experimental imagery, photomontage, photographic or digital installation, animation, video and film.

The A Level is a two year course. All examination assessment work is undertaken in the second year of the course after you have acquired a wide range of personal skills through your assignments in year one. In the second year of the course you have to complete a Personal Investigation, (which also includes a written study), and an Externally Set Practical Task. The personal investigation and the study together account for 60% of the final examination grade - the externally set task accounts for the remaining 40% of the examination grade.

ENTRY REQUIREMENTS

An interest in Photography is essential. A 4 or above in Photography or Art would be beneficial.

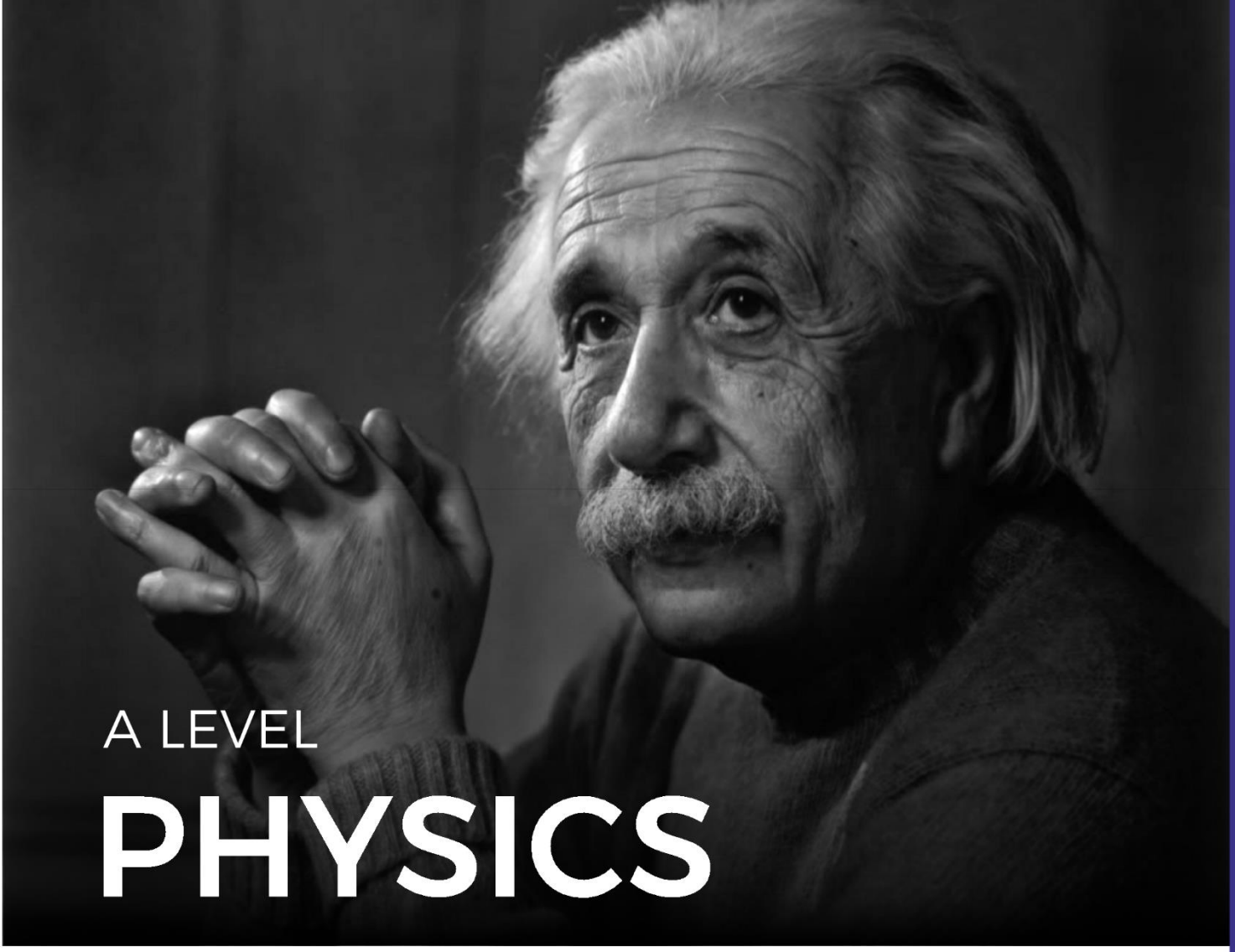
Ownership of a camera is not essential as you can borrow a range of different cameras from school. However, students having their own cameras have the advantage of being able to take photographs at any time and not just when there are cameras available for loan. (Phone cameras seldom produce images of sufficient quality due to an inability to control aperture and shutter speed).

You do not need to have completed a GCSE in this subject to take it at A Level but you do need to be able to control and direct your own work. The nature of the subject is 100% coursework meaning that self-motivation and planning are crucial to ensure success.

WHICH SUBJECTS LINK WELL

The course links very well with IT, Media and other Art courses. The course uses digital cameras and image editing software to produce creative outcomes from photographic images – it is not a pure photography course. You will learn how to use digital cameras and you will learn how to use a range of image editing and presentation software.

The full specification for the subject can be found by searching for OCR Art and Design Photography H603.



A LEVEL PHYSICS

COURSE CONTENT

Year 1

- Working as a Physicist
- Mechanics
- Electric Circuits
- Materials
- Waves and Particle Nature of Light

Year 2

- Further Mechanics
- Electric and Magnetic Fields
- Nuclear and Particle Physics
- Thermodynamics
- Space
- Nuclear Radiation
- Gravitational Fields
- Oscillations

ENTRY REQUIREMENTS

6+ in Physics or 6s in Combined Science GCSEs. 6+ in Maths.

CAREER OPPORTUNITIES

With a Physics A Level you could aim for one of these diverse careers using physics:

- Games designer
- Coding
- Architect
- Healthcare
- Hardware technician
- Forensic scientist
- Meteorologist

Or you could go on to further study. Below are just a few of the degree courses where an A Level in Physics will help:

- Engineering
- Medicine
- Architecture
- Computer Science

WHICH SUBJECTS LINK WELL

Most other subjects link well but especially Mathematics and other Science subjects.

A LEVEL PRODUCT DESIGN

COURSE CONTENT

A level Product and Graphic Design will encourage students to:

- Make use of knowledge and skills in order to work with tasks that are challenging and interesting
- Develop and sustain creativity and innovative practice
- Recognise and overcome challenges and constraints when working towards the production of high-quality products
- Develop a critical understanding of the influences of the processes and products of design and technological activities from a modern and historical perspective
- Draw on a range of skills and knowledge from other subject areas
- Draw on and apply knowledge, understanding and skills of production processes to a range of design and technology activities
- Develop an understanding of contemporary design and technology practices
- Use digital technologies and information handling skills to enhance their design and technological capability
- Recognise the values inherent in design and technological activities and develop critical evaluation skills in technical, aesthetic, ethical, economic, environmental, sustainable, social, cultural and entrepreneurial contexts.

ENTRY REQUIREMENTS

You will need a 4+ in GCSE Product Design, Engineering or Art.

CAREER OPPORTUNITIES

Careers in Design, Engineering, Manufacturing, Sales, Marketing, Architecture and Theatre.

WHICH SUBJECTS LINK WELL

Art, Maths, Sciences, Humanities and Languages

A LEVEL PSYCHOLOGY

COURSE CONTENT

The course consists of three main elements: research methods, psychological themes and research and applied Psychology.

Students will be expected to be able to carry out small-scale research projects, planning activities and collecting data, then presenting their findings in a formal written research report. They must be able to use statistical techniques to analyse the data.

Learners will also develop their critical thinking and independent learning skills through the analysis and evaluation of research studies and theories in Psychology. Students will study research that represents a variety of research methodologies, issues and debates. They will be expected to be able to discuss the inter-relationship between the different areas and justify differing positions in debates, such as free-will/ determinism, using research to illustrate their viewpoint.

Understanding of Psychology is further developed through the study of how psychological research is used to help our understanding of issues such as mental health and criminality. The application and contribution of Psychology to society and the economy is considered and learners should be able to relate applications to novel situations.

This course enables learners to understand different areas of the subject, for example social, biological or cognitive Psychology, and to develop an understanding of scientific methods. Competence and confidence in mathematical and problem solving skills is developed and learners are prepared for careers associated with the subject.

ENTRY REQUIREMENTS

5 or above in English, Maths and Science.

CAREER OPPORTUNITIES

Educational Psychologist, Criminal Psychologist, Organisational Psychologist. Any career in which understanding other people is an integral part e.g.: Teaching, Police, HR, Healthcare and Childcare.

WHICH SUBJECTS LINK WELL

PE, English, Philosophy, Biology, Media, History, Mathematics. Any subject that needs you to analyse and think critically.

LEVEL 3 EXTENDED CERTIFICATE IN SPORT

COURSE CONTENT

BTEC National qualifications provide a broad introduction that gives learners transferable knowledge and skills. This qualification is for post-16 learners who want to continue their education through applied learning.

The qualification prepares learners for a range of higher education courses and job roles related to the sports sector. It provides progression either by meeting entry requirements in its own right or by being accepted alongside other qualifications at the same level and adding value to them.

There are 4 units of the course of which 3 are mandatory and 2 are external.

The overall qualification is equivalent to one A-Level.

ENTRY REQUIREMENTS

Ideally a Distinction at BTEC Level 2 Certificate in Sport, although students with a Merit are welcome, provided they show motivation and commitment.

Students who have not studied BTEC Sport or GCSE PE are also welcome, but will need an aptitude for science and are required to show a passion and enthusiasm for developing their knowledge of sporting activity.

CAREER OPPORTUNITIES

Students who have studied BTEC Nationals have gone on to careers including physiotherapist, personal trainer, nutritionist, PE teacher, sports scientist and sports journalist.

WHICH SUBJECTS LINK WELL

Biology.

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