







KEY STAGE 4 (Year 10 & 11) OPTIONS BOOKLET

ISCS Pathways for Success













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Welcome

Welcome from our Head of Secondary

Dear Parents and students.

Welcome to our Key Stage 4(KS4)Pathways for Success booklet. The aim of this booklet is to provide both parents and students with key information, advice and guidance with choosing KS4 subject options. KS4 subjects will be studied in Year 10 through to Year 11. Students' will study core iGCSE subjects alongside their option subjects. At the end of their 2 years of study, students will sit external certified examinations.

Choosing KS4 options is a pivotal moment in a student's learning journey, as these decisions will influence what a student studies at Post 16 and beyond. At the International School of Creative Science Dubai, we have endeavored to make these decisions easier by providing students with several Pathways to Success. These are clear progression pathways for students, which link closely to our Post 16 options and to numerous future career routes. Furthermore, we have also provided an outline of the progression requirements for further study in the UAE and UK.

We follow the Pearson International UK curriculum, which students' study alongside the UAE curriculum. We have a strong set of specialist teachers in our secondary team, who deliver innovative and creative lessons.

I am looking forward to meeting you at our Pathways for Success afternoon and hope this booklet will support you with your choices.

Yours Sincerely,



Mr Faheem Mohammed Head of Secondary









Our Shared Vision, Mission and Values

Mission

To ignite a passion for learning, by creating an inclusive community which fosters virtues, innovation, and best practice focused on achieving successful outcomes for all our students.

Vision

Lighting the way to excellence rooted in faith, cultivating life-long learners and global citizens equipped with a moral compass.

School Values



Our curriculum aims

We aim to offer an innovative and creative curriculum which develops our students' employability skills and prepares them for their future career aspirations. Islamic values are a core part of our curriculum.

Key features of our curriculum

- Use of innovative technology
- Development of science skills
- Employability skills (work experience)
- Curriculum based on students' future career aspirations and industry needs
- Islamic values and faith-based curriculum









Making your choices

As we are a school operating in the UAE which offers a UK curriculum, we must follow the UK requirements and those of the Ministry of Education. Therefore, all students must take several compulsory subjects outlined below.

UK curriculum

All students must study Maths and English. In addition, all students must take Physical Education which may lead to a formal qualification if students select this as an option. For further study in the UK it is recommended that students achieve at least 5 GCSEs at grade 9-4 including English, Maths and Science.

MOE curriculum

All students must study Arabic. Non-native students must study ASL. Native students will be given the opportunity to study GCSE Arabic. In addition, all Muslim students must also study Islamic studies and Social studies.

Shahadat Al-Thanawiya Al-Amma

The Shahadat Al-Thanawiya Al-Amma or 'Secondary leaving certificate' is a student's evidence that they have completed secondary schooling in the UAE. This is often referred to as the 'Equivalency Certificate' and is essential for students planning to continue their studies in the UAE.

What are the requirements of the Shahadat Al-Thanawiya Al-Amma?

In order to achieve the Shahadat Al-Thanawiya Al-Amma students must meet the following criteria:

- Achieve 5 iGCSEs including English, Maths and Science (at level 3 or above)
- Achieve 2 A levels at grade D or better in Year 13
- Pass the Arabic studies exam in Year 12
- Pass the Islamic studies exam in Year 12(Muslim students only)









Examination fees

Optional subjects

Students will be able to pick a number of iGCSE subjects from the options list. These options will be placed in option blocks.

Pearson examination centre

We are an official Pearson examination centre. Our iGCSE curriculum and examinations are delivered through Pearson. Our exam centre number is: 92700.

Examination & admin fees

Before students can be entered for Pearson iGCSE examinations, parents will be expected to pay examination entry fees. There will be an examination entry and admin fee for each iGCSE that a student is entered for. Further information about examination and admin fees will be sent out to parents well in advance of iGCSE examinations.

iGCSE grading structure

iGCSEs use the 9 to 1 grading structure, with 9 being the highest grade and 1 being the lowest grade. A grade 4 is equivalent to a low C grade and is considered to be a pass in the UK system. Although there seems to be a recent move in the UK to a grade 5 being considered as a good pass.

BTEC grading structure

Students receive a final grade of Pass(P), Merit(M), Distinction(D) or Distinction *(D*).

A*-G Grading Structure	A**	A *	A	В	C+	C-	D	ш	F	G	U
9-1 Grading Structure	9	8	7	6	5	4	3		2	1	–
BTEC level 2		D*	D	M	P						







Our KS4 Pathways for Success

We have planned out several pathways to support our students with their KS4 options, progression into Post 16 and with future career aspirations. Our pathways aim to prepare students for new industries and careers that are emerging in the UAE and beyond. The outlines for each pathway are below.

Pathways to success	General pathway	Medicine & Health pathway	Business pathway	Media & Art pathway	Engineering and Technology
What iGCSE subjects should I study?	Maths English Science Geography IT PE	Biology Chemistry Physics Maths English Psychology IT	Business English Maths Science IT	English language English literature Media Maths Science IT Art & Design	Maths Physics English Ianguage Geography IT Art and design
What careers can this lead into?	Range of career options	Anesthesiologist s Dentists Doctor Opticians Pharmacists Psychiatrists Psychologists Surgeons Veterinarians	Accounting Bookkeeping Managers Marketing Entrepreneur	Art Directors Broadcast Technicians Camera operators Publishers Editors Fashion Designers Graphic Designers	Aerospace Engineers Archeologists Architect







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Pathways to success	What iGCSE subjects should I study?	What careers can this lead into?
General pathway	Maths, English, Science Geography, IT, PE	Range of career options

Pathways to success	What iGCSE subjects should I study?	What careers can this lead into?
Medicine & Health pathway	Biology, Chemistry, Physics, Maths, English, Psychology,IT	Anesthesiologists, Dentists, Doctor, Opticians, Pharmacists, Psychiatrists, Psychologists, Surgeons, Veterinarians

Pathways to success	What iGCSE subjects should I study?	What careers can this lead into?
Business pathway	Business, English, Maths, Science, IT	Accounting, Bookkeeping, Managers, Marketing, Entrepreneur

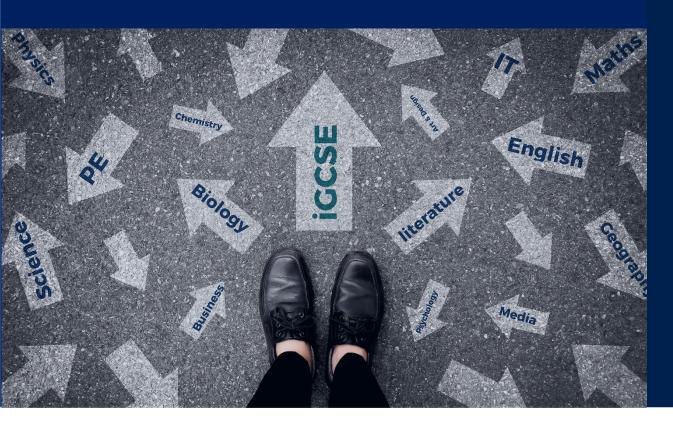






Pathways to success	What iGCSE subjects should I study?	What careers can this lead into?
Media & Art pathway	English language, English literature, Media, Maths , Science, IT, Art & Design	Art Directors, Broadcast, Technicians, Camera operators, Publishers, Editors, Fashion Designers, Graphic Designers

Pathways to success	What iGCSE subjects should I study?	What careers can this lead into?
Engineering and Technology	Maths, Physics, English language, Geography, IT, Art and design	Aerospace Engineers, Archeologists, Architect

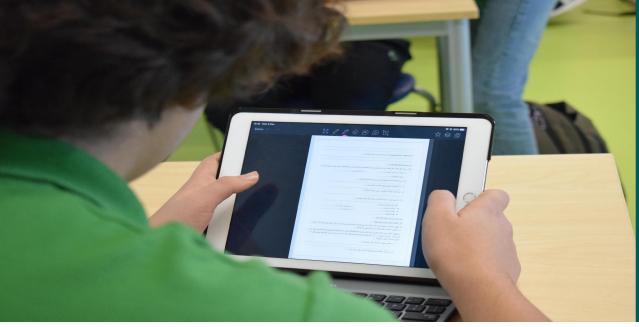






KS4 option blocks

Core subjects	Option 1	Option 2	Option 3	MOE subjects (cor e)
English	Design and Technology	Art	Business	Arabic
Maths	<u>or</u>	<u>or</u>	<u>or</u>	Islamic
Science	Psychology or BTEC Business	English Literature	Global Citiz enship	Social studies
ΙΤ		<u>or</u>	<u>or</u>	Quran
PE		Geography Or BTEC Sport	Qu'ran/Arab ic B	Moral Education







Meeting the needs of our students

Setting in core subjects

Year 10 and 11 students are allocated to sets in their core iGCSE subjects in order to meet students' needs and to accelerate their progress. Setting in core subjects is based on student data including CAT4s, GLs, baseline and progress tests.

Sets

- English Language A or English as a Second language
- Maths higher or Maths Foundation
- Science Combined or Triple

Alternative pathways

Some students may be allocated to alternative pathways, as part of their programme of study. This is dependent on the student's assessed needs and a full discussion with the student, parent and inclusion team. The alternative pathway includes:

- **BTEC** Functional skills Programme (English, Maths & ICT)
- Entry level Programme (English, Maths & Science)
- **ASDAN Programme**







iGCSE Core subjects

All students will study the core iGCSE curriculum. Our core iGCSE subjects are:

English
Maths
Science
Informational and Communication Technology (ICT)
PE



Provision will be made for students that would be appropriate candidates for iGCSE in Arabic or Arabic as a Second Language(ASL)







iGCSE English language looks at language in segments and you can expect to encounter a larger range texts for analysis.

Paper 1: Non-fiction Texts and Transactional Writing	Component 2: Component: Poetry and Prose Texts and Imaginative Writing
Content summary • The contemporary non-fiction texts from Part 1 of the Pearson Edexcel International	Content summary • The poetry and prose texts from Part 2 of the Pearson Edexcel International GCSE
 GCSE English Anthology. Develop skills to analyse how writers use linguistic and structural devices to achieve their effects. Explore links and connections between writers' ideas and perspectives. Develop transactional writing skills for a variety of purposes and audiences. Use spelling, punctuation and grammar accurately 	 English Anthology. Develop skills to analyse how writers use linguistic and structural devices to achieve their effects. Develop imaginative writing skills to engage the reader. Use spelling, punctuation and grammar accurately
External examThe assessment duration is 2 hours 15 minutes.	TBC
60% of the total International GCSE	40% of the total International GCSE

What can you study with English Language at Post 16?

English Language, English Literature, media studies, sociology, psychology, History

What are the possible career pathways?

law, media, teaching, business, publishing, writing







iGCSE English (as a second language)

iGCSE English (as a second language) looks at language in segments and you can expect to encounter a larger range texts for analysis.

Paper 1: Reading and Writing	Paper 2: Listening
Content summary Reading Passages will be taken from a variety of sources, including fiction, and may include factual information, explanation, opinions and biographical writing. Part 1 – Skimming and scanning skills. Part 2 – Read for both gist and detail. Part 3 – Read for both gist and detail, follow a line of argument or discussion, and identify attitudes and opinions in the text. Part 6 – Read for details to be included in the summary writing (see Writing section below).	 Content summary Listening Part 1 – Listening to short extracts; identifying the item, place or event being described. Part 2 – Listening for detailed information. Part 3 – Following a discussion or argument; identifying attitude and opinions of speakers; following instructions. Part 4 – Listening to a complex argument or discussion; understanding the overall message; identifying attitudes and opinion.
 Writing Part 4 – Short piece of writing in response to a given situation. The writing can take the form of a letter, mail or postcard and students may have to both provide information and ask for required information. Part 5 – Factual piece of writing based on own knowledge and interests. The writing can take the form of a report or article. Part 6 – Respond to one or two short texts, approximately 500 words in total, and produce a summary for a given purpose and reader. 	







	This unit is assessed through a 50-minute examination paper
67% of thetotal International GCSE	33% of the total International GCSE

What can you study with English(as a second language) at Post 16? English Language, English Literature, media studies, sociology, psychology, History

What are the possible career pathways? law, media, teaching, business, publishing, writing







iGCSE Maths(Higher & Foundation)

iGCSE Maths exam focuses on the practical side of mathematics. It tests the ability of students to apply core mathematical concepts to solve mathematical problems derived from everyday lives

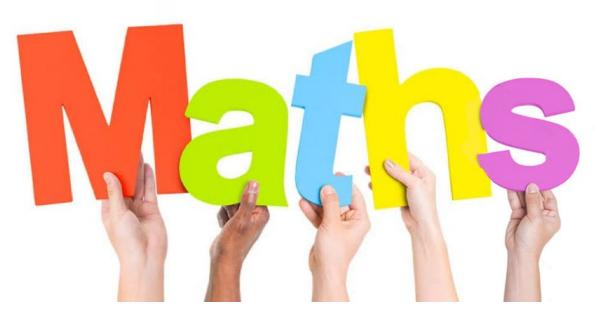
Content summary for paper 1 & paper 2

- Number
- Algebra
- Geometry
- Statistics

Two external examinations which are worth 50% of the international GCSE

What can you study with Maths at Post 16? Maths, Further Maths, Physics

What are the possible career pathways? Accountant, engineer, teacher













iGCSE Combined/Triple Science

iGCSE Combined/Triple Science will enable students to study all three sciences (Biology, Chemistry and Physics). Students will be awarded two/three GCSE grades based on their overall performance across all three science subjects.

Paper 1 Biology
Paper 2 Chemistry
Paper 3 Physics

Content summary

- 1. The nature and variety of living organisms
- 2. Structure and functions in living organisms
- 3. Reproduction and inheritance
- 4. 4 Ecology and the environment
- 5. 5 Use of biological resources 25 Chemistry content
- 6. Principles of chemistry
- 7. Inorganic chemistry
- 8. Physical chemistry
- 9. Organic chemistry
- 10. Forces and motion
- 11. Electricity Waves
- 12. Energy resources and energy transfer
- 13. Solids, liquids and gases
- 14. Magnetism and electromagnetism
- 15. Radioactivity and particles
- 16. Astrophysics
- 3 external exams Biology paper 33% Physics paper 33% Chemistry paper 33%

What can you study with Combined Science at Post 16?

Further study in the field of Science

What are the possible career pathways?

Teaching, nursing and many more vocations









iGCSE Information and Communication Technology(ICT)

Paper 1 Written paper	Paper 2 Practical paper
Content summary	Content summary
Students must study all of the following topics:	Students must study both of the following topics:
Topic 1: Digital Devices Topic 2: Connectivity Topic 3: Operating Online Topic 4: Online Goods and Services.	Topic 5: Applying Information and Communication Technology Topic 6: Software Skills
Externally assessed 1-hour and 30-minute examination	Students are assessed through a three-hour practical examination
50% of the total International GCSE	50% of the total International GCSE

What can you study with ICT at Post 16?

A-level ICT or Design Technology

What are the possible career pathways?

Applications programmer, Information systems manager, Database administrator, Multimedia programmer, Software engineer, Systems analyst, Systems designer, Network Manager, and much more.









KS4 OPTIONS

Our KS4 options are:

Geography

Psychology

Business

English Literature

Art and Design

BTEC Sport

Design and Technology

Global Citizenship

BTEC Business









iGCSE Geography

Geography enables students to explore the world, the challenges it faces and their own place in it, and to help prepare them to succeed in their chosen pathway.

Content overview

Paper 1: Physical geography	Paper 2: Human geography
Content summary Coastal environments Hazardous environments Coastal fieldwork	Content summary Economic activity and energy Urban environments Development and human welfare) Urban fieldwork
Examination of 1 hour and 10 minutes	Examination of 1 hour and 45 minutes
40% of the total International GCSE	60% of the total International GCSE

What can you study with geography at Post 16?

Geography will support the study of sciences, especially health and social sciences, like Biology, Sociology and Psychology. It also requires excellent English skills due to the amount of terminology and essay writing involved.

What are the possible career pathways?

It is a solid academic subject and well respected by universities and employers alike. Geography graduates are employed in a range of sectors, including the public sector, education, commerce, industry, transport and tourism. Graduates have excellent transferable skills, which also attract employers from the business, law and finance sectors. Popular specific related careers are most notably:

- Volcanologist
- Cartographer
- Commercial/residential surveyor
- Environmental consultant
- Geographical information systems officer









GCSE Psychology

Psychology is a subject which enables students to explore human behaviour, get an understanding of themselves and others, and gain skills that will support progression to further study of psychology and a wide range of other subjects.

Content overview

Paper 1: Core topics	Paper 2: Research methods and options
These topics are in Section A of the content. This paper may also draw on knowledge and understanding of investigations from Section C. Topic 1: Development – How did you develop? Topic 2: Memory – How does your memory work? Topic 3: Psychological problems – How would psychological problems affect you? Topic 4: The brain and neuropsychology – How does your brain affect you? Topic 5: Social influence – How do others affect you	Topics 6 to 10 are optional; students must study two of them. Topic 11 is compulsory. Topic 6: Criminal psychology – Why do people become criminals? Topic 7: The self – What makes you who you are? Topic 8: Perception – How do you interpret the world around you? Topic 9: Sleep and dreaming – Why do you need to sleep and dream? Topic 10: Language, thought and communication – How do you communicate with others? Topic 11: Research methods – How do you carry out psychological research
Written examination: 1 hour and 45 minutes	1 hour and 20 minutes
55% of the qualification	45% of the qualification





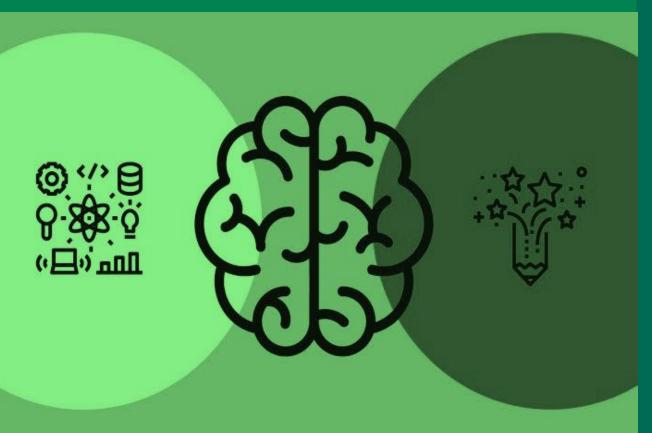


What can you study with Psychology at Post 16?

Psychology will support the study of sciences, especially health and social sciences, like Biology and Sociology. It also requires excellent English skills due to the amount of terminology and essay writing involved.

What are the possible career pathways?

- Human Resources
- Teaching
- Psychology related field e.g. Clinical, Education









iGCSE Business

The course is designed to give students a sound understanding of business, and the ability to use knowledge, skills and understanding appropriately in the context of individual countries and the global economy

Paper 1: Investigating small businesses	Paper 2: Investigating large businesses	
Content summary	Content summary	
This paper will draw on topics taken from the whole of the subject content. The question scenarios are based on a small business – up to 49 employees. 1. Business activity and influences on business 2. People in business 3. Business finance 4. Marketing 5. Business operations	This paper will draw on topics taken from the whole of the subject content. The question scenarios are based on a large business – more than 250 employees. 1. Business activity and influences on business 2. People in business 3. Business finance 4. Marketing 5. Business operations	
Examination of 1 hour and 30 minutes	Examination of 1 hour and 30 minutes	
50% of the total International GCSE	50% of the total International GCSE	



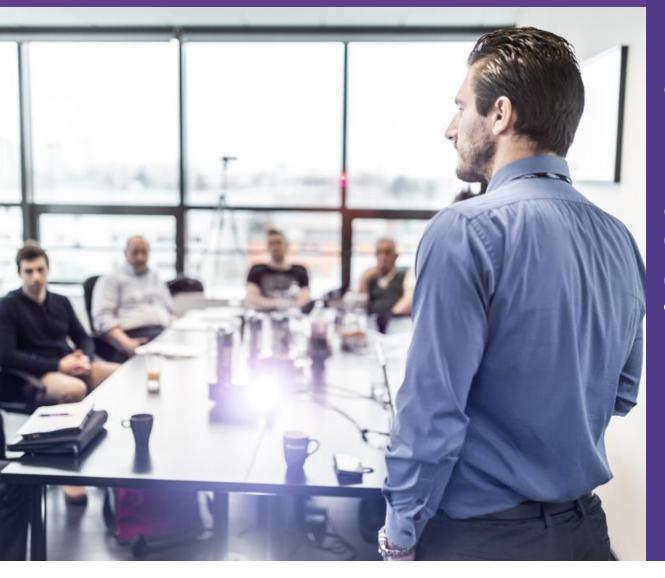




What can you study with Business at Post 16? Excellent foundation course for A Level Business.

What are the possible career pathways?

Career opportunities are endless with this subject. All careers have an element of Business in them, so this subject is essential. If you become a dentist / architect / lawyer, you may set up your own business, so an understanding of finance / marketing etc. is crucial.











iGCSE English Literature

English Literature enables students to engage with and develop the ability to read, understand and respond to a wide range of literary texts from around the world. It develops an appreciation of the ways in which writers achieve their literary effects and develops the skills needed for literary study. English Literature explores, the cultures of their own and other societies.

Paper 1: Poetry and Modern Prose	Paper 2: Modern Drama and Literary Heritage Texts
Content summary The poetry collection from Part 3 of the Pearson Edexcel International GCSE English Anthology.	 Content summary One modern drama text from the list of set texts One literary heritage text from the list of set texts







- One modern prose text from the list of set texts
- Develop skills to analyse unseen poetry.
- Develop skills to analyse how language, form, structure and contextual factors can be used to create meanings and effects.
- Develop skills to maintain a critical style and informed personal response.
- Develop comparison skills.

- Develop skills to analyse how language, form, structure and contextual factors can be used to create meaning and effect.
- Develop skills to maintain a critical style and informed personal response.

The assessment duration is 2 hours.

The assessment duration is 1 hour and 30 minutes.

60% of the total International GCSE

40% of the total International GCSE

What can you study with English Literature at Post 16?

English Language, English Literature, media studies, sociology, psychology, History

What are the possible career pathways?

Law, media, teaching, business, publishing, writing







IGCSE Global Citizenship

The Global Citizenship course encourages students to reflect on what makes them a 'global citizen', and how their learning will develop their skills and knowledge within their local and national communities. Students will engage in responding to issues and take part in a community project, which allows them to 'engage' with global society. This will enable them to take greater ownership and responsibility of the community activity to demonstrate active citizenship – improving others' societies as well as their own.

Content summary

This paper assesses knowledge and understanding of four key themes relating to global citizenship studies:

- Politics and Governance
- Economic Development and the Environment
- Culture and Community
- Technology

These themes are broken down into related subject areas, which enable students to explore a wide range of issues and ideas, with a specific focus on how they interrelate with being an effective citizen

Assessment

- Assessment is through a two-and-a-half-hour examination paper set and marked by Pearson.
- The assessments are separated into four sections:
- Section A: Citizenship Community Action
 Project
- Sections B & C: Politics and Governance, Economic Development and the Environment, Culture and Community, Technology. The combinations may change year on year
- Section D: Synoptic assessment
- • The total number of marks for the paper is 100

What can you study with Global Citizenship at Post 16?

Politics, Law, Economics and Citizenship studies or other humanities subjects

What are the possible career pathways?

Further study in other areas where an understanding of global issues and citizenship is required. Training or employment where citizenship skills and knowledge are required.









GCSE Design and Technology

GCSE Design and Technology will prepare students to participate confidently and successfully in an increasingly technological world. Students will gain awareness and learn from wider influences on Design and Technology including historical, social, cultural, environmental and economic factors. Students will get the opportunity to work creatively when designing and making and apply technical and practical expertise.

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Component 2:









iGCSE Art & Design

Art and design is a subject which actively engages students in the creative process of art, craft and design in order to develop as effective and independent learners, and as critical and reflective thinkers with enquiring minds. It enables students to develop as creative, imaginative and intuitive capabilities when exploring and making images, artefacts and product.

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Component 2: Externally-set **Assignment**

- Students create a personal







What are the possible career pathways?

Engineer, architect, product designer, graphic designer, interior designer, fashion designer, curator, art director, jewelry maker, web designer, illustrator, animator, set designer, photographer, publishing.









BTEC SPORT

This qualification is designed to support learners who want an introduction to the sector through applied learning and for whom an element of sport would be complementary

The **Pearson BTEC International Level 2 Award in Sport** consists of 2 mandatory units, which include 1 internal unit and 1 set assignment unit. Learners must complete and achieve a Pass or above in all mandatory units. Learners must also complete 1 optional unit

Mandator	y Units			
Unit	Unit Title	Level	Guided Learning Hours	How assessed
1	Principles of Fitness Testing and Training	2	30	Set assignment
5	Practical Sport	2	60	Internal
Optional Units				
2	Training for Personal Fitness	2	30	Set assignment







What can you study with PE at Post 16?

This will assist with the AS and A Level PE courses at post 16

What are the possible career pathways?

Career opportunities are PE Teacher, Sports Scientist, Sports Nutritionist, Sports Physiotherapist, Sports Psychologist, Sports Coach







BTEC BUSINESS



This course allows students to gain vital industry knowledge, transferable skills and behaviors to prepare them for a career in the current emerging market or to continue in education. The programme is designed to offer hands on practical experience in a range of business environments.

The Pearson BTEC International Level 2 Certificate in Business qualification has a minimum total of 150 Notional Learning Hours (NLH). Learners must achieve both mandatory units and one optional unit for a combined minimum total value of 15 to achieve the qualification.

Mando	Mandatory Units				
Unit	Unit Title	Level	Notional Learning Hours	Unit Value	
1	Business Purpose	2	50	5	
2	Business Organization	2	50	5	
Optional Units					
4	People in Organizations	2	50	5	





Unit Title	Description
Business Purpose	The aim of this unit is to develop learners' understanding of the nature of business organisations and the business environment in which they operate. Learners will do this by looking at the range of organisations that exist locally, regionally, nationally and internationally, and by considering the business framework in which they operate. There will be a particular focus on businesses in the local context with which learners will be familiar with.
Business Organization	The aim of this unit is to develop learners' understanding of the aims and objectives of business organisations and how they are organised into functional areas to meet their business goals. Learners will do this by looking at examples of local and national organisations and for which information is readily available. There will be a particular focus on businesses in the local context with which learners will be familiar with.
People in Organizations	The aim of this unit is to develop learners' understanding of the part played by people in organisations. Learners will do this through a study of job roles and their functions. They will examine the different structures of organisations, as well as considering their own preparation for employment and career planning.

What can you study with BTEC Business at Post 16?

This will provide the foundations needed to take Level 3 BTEC Business

What are the possible career pathways?

Career opportunities are Business Teacher, Accountant, Business Analyst and Business reporter.







