

'An Academy to be Proud of'

# **KS4**

# **Options**

# **Choices**

## **2021-2023**

# Message from the Headteacher

March 2021

Dear Parent / Carer,

## Year 9 Options 2021 – 2023 Pathway P

This is a really exciting time for our students as they begin to personalise their learning for Years 10 & 11. Pathway P is a bespoke pathway in which we offer students a number of different courses that are suited to their needs and will help them prepare for the next stages of their lives.

It builds on our theme of Pride that runs throughout Armfield. It begins with Pride Rock and is developed through secondary school with the Pride Centre culminating in KS4 with Pathway P.

I know that staff have already contacted you to discuss how we will work with students and their families to ensure that their curriculum at KS4 matches their needs. We will soon make arrangements to meet with you to provide you with all the information that you need and give you the opportunity to ask us any questions that you may have.

We look forward to working with you over the coming weeks and throughout Years 10 & 11 to ensure that every student is the best that they can be.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'M Kilmurray', with a stylized flourish at the end.

M Kilmurray  
Headteacher

# Changes to GCSE Grades

Grades in all GCSE subjects are now grade 9-1; with 9 being the high grade. Aproximate grade comparator:

New GCSE Grade	1	2	3	4	5	6	7	8	9
Old GCSE Grade	G	F	E	D	C	B	A	A*	

## Terminology that may help your child

Core	These are compulsory subjects: English, maths, science, PE, PSHE/RE
Options Choices	There is an element of choice about which of these subjects to study
Level 1	GCSE grades 3-1 or equivalent (grades 3-1 have replaced grades D-G at GCSE)
Level 2	GCSE grades 9-4 or equivalent (grades 9-4 have replaced grades A*-C at GCSE) with grades 5+ being classed as strong pass grades
GCSE	A course graded 9-1. These are assessed mainly or solely by examination (see individual subject guides for further information)
BTEC / OCR National / Technical Award	Vocational qualifications, graded pass/merit/distinction/distinction*, and equivalent to a GCSE. Mostly portfolio/coursework based, with an exam element (see individual subject guides for further information). Designed to equip students with applied knowledge and associated practical skills; and closely aligned with the world of work
Facilitating Subjects	The Facilitating Subjects are: maths, English, sciences (including computer science), geography, history and modern foreign languages. Please see link below regarding the value, placed on these subjects
Full EBacc (EBacc = English Baccalaureate)	For students to achieve the full EBacc they must attain GCSE grade 5+ in maths, English, at least two science, one of history or geography and a modern foreign language

## What sort of future planning should students be doing?

Where possible, if students have a goal to aim for, this can help focus their choice of courses. Having said that, we fully understand that many students will either not have a career path planned out or may change their plans. Our curriculum has the flexibility to accommodate this and we would also encourage students to choose a broad range of qualifications over Years 10 & 11, to keep their future options open.

## Attainment 8

The government has set a new Level 2 threshold measure called Attainment 8. Attainment 8 is starting to become part of the admissions criteria for some further or higher education establishments and employment; as previous measures have, for example 5+ A\*-C. A student's Attainment 8 score not only indicates their average grade, it also demonstrates performance across a range of subjects. It expects students to have achieved best possible grades in:

- GCSE Maths and GCSE English
- Any three GCSE qualifications from the Sciences, geography, history or modern foreign languages
- A further three qualifications which can be either BTEC/OCR National/Technical Award, GCSE or other approved qualifications

We will therefore support students in the core curriculum and through their options choices to achieve this threshold.

# Frequently Asked Questions

## What if students cannot do their chosen course?

We build the options subject blocks based on student choices rather than ask them to pick from pre-determined blocks, so we hope that the courses offered will be available to all the students who want them but we will ask you to give us two alternative/reserve choices

Despite every effort to give all students their preferred choice, this may not always be possible. Alternatives may have to be considered if:

- Too many students opt for a particular course
- Too few students select a particular course
- We wish to advise a better range of courses to meet a student's needs
- Combinations of courses are chosen which don't work once the blocks have been created

We will write to you in the summer term to confirm your choices.

## Can students change their mind?

We always do our best to ensure that all students' choices can be matched but please bear in mind that students who submit choices after the deadline may not find it possible to be placed on their first choice courses. As soon as the options deadline has passed, work begins on timetabling. Alterations to choices may not be possible from this point on wards.

Once a decision has been made and a course begun, it is extremely difficult to make any changes. It is therefore essential that time and thought be given to the combination of courses to be taken.

## What support is available to help decide which options to take?

1. Subject staff will be available via telephone or appointment, week beginning 5th March
2. Students are welcome to discuss course choices in relation to their future career plans and current level of performance with subject staff during the academy day, over the next few weeks

## Filling in and submitting the form

When you fill in the form it is important to put your choice in order with your most preferred choice first and it is equally important to think about the order for your next choice of subjects. Your option choices are checked against what staff might recommend for you. If you do not fill in the form fully there may be a delay in your options being submitted.

## Deadline for handing in the form

The deadline for completing the form is Friday 19th March. You can complete your option form earlier and submit it before the deadline closes but this does not mean that your options choices will be considered ahead of anybody else. All options will be dealt with after the closing date.

## What happens next?

We will collate your option choices and then confirm the choices you selected by letter in the summer term. If there are any problems with your choices we will speak to you as soon as possible.

## Important dates

Week commencing Monday 15th March - Opportunity to speak to staff about the process of specific subject information  
Friday 19th March - Deadline for submitting the options form

# Careers Education & Guidance Programme

Our vision is that by the age of 25 all Armfield Academy students will have experienced an outstanding and enjoyable education and be able to sustain the life of their choice. They will be independent, thriving economically and making a real positive contribution to their communities.

Personal, Social, Health Education and Careers Information, Advice and Guidance (PSHE/CIAG) is advice and support we offer our students to help them develop as young people, active citizens and prepared to make appropriate decisions about their future.

Key information about careers is provided to our students with a structured way within the school's programme of PSHE and the curriculum, because they need a realistic expectation of what each option entails and support to help them make decisions that reflect their ability, potential, aspirations and learning preferences.

Every student at Armfield is encouraged to have high aspirations for their future, develop their life skills and make the most of their academic ability and talents. We help our students prepare for the next stage of education and employment; applying for sixth form, college, apprenticeships and the world of employment by providing regular and timely careers guidance and encounters with local organisations and institutions.

Through Armfield's partnerships with our Enterprise Co-ordinator and Adviser, we are building links with leading local employers in all sectors. We are using the platform "Start in Blackpool" to explore the industries available within our own local area, we share careers information in assemblies or at events to inspire our students and provide them with crucial local labour market information.

All subjects provide specific subject related information at all key stages and all areas of the curriculum integrate the development of employability skills into their lessons. Local STEM providers such as BAE Systems are also invited regularly to offer students an overview of their progression pathways through interactive sessions.

During National Careers Week there will be a variety of opportunities for students to experience the world of work through their different subjects and also a number of virtual tours of higher education establishments.

Our PSHE/CIAG provision is evaluated with students, teachers and employers on an annual basis. The school also measures how its careers education meets the eight Gatsby Benchmarks which are the national standard in this area.

1. A stable careers programme.
2. Learning from careers and labour market information.
3. Addressing the needs of each student.
4. Linking curriculum learning to careers.
5. Encounters with employers and employees.
6. Experiences of workplaces.
7. Encounters with further and higher education.
8. Personal guidance.

# Connecting GCSEs to Careers

To help you to start thinking long-term you will find information below that connects each GCSE option to some of the careers they relate to including the skills you will develop.

Remember- if you choose a GCSE it doesn't necessarily mean you'll end up with a career relating to it. It's never too early to start thinking where your skills and interests could lead you.

Future Prospects			Careers	Skills
English		GCSE English is vital for a whole range of employment options, college and university courses. For most jobs, employers will look for good communication skills, both written and spoken, and the ability to read with insight and understanding.	Barrister Teacher Politician Solicitor Journalist Writer Actor / Actress Counsellor Social Worker Public Relations Officer Librarian Psychologist	<ul style="list-style-type: none"> <li>• Written and verbal communication</li> <li>• Information handling</li> <li>• Planning essays, reports and projects</li> <li>• Persuasion</li> <li>• Negotiation</li> <li>• Presenting points of view</li> <li>• Research</li> </ul>
Maths		Just about everything! People with Maths qualifications can go into accounting, medicine, engineering, forensic pathology, finance, business, consultancy, teaching, IT, games development, scientific research, programming, civil service, design, construction and astrophysics.	Software Engineer Economist Aerospace Engineer Financial Advisor Accountant Quantity Surveyor Civil Engineer Architect Graphic Designer	<ul style="list-style-type: none"> <li>• Calculation</li> <li>• Problem-solving</li> <li>• Budgeting</li> <li>• Planning</li> <li>• Research</li> <li>• Interpreting statistics</li> <li>• Analysing data</li> </ul>
Science		<p>All of these Science subjects - Biology, Physics and Chemistry- can be taken up to a higher level of education. Next steps include:</p> <ul style="list-style-type: none"> <li>• AS/A2-Level in Biology, Physics and/or Chemistry</li> <li>• BTEC Level 3</li> <li>• NVQ Levels 2 to 5</li> <li>• Intermediate and Advanced Level Apprenticeships</li> </ul> <p>You can pursue your preferred subject to a higher level or take a number of Science subjects alongside each other. Science subjects provide a good basis for further education and they develop a range of skills including analytical abilities, evaluation, planning and observational skills.</p>	Astronomer Physicist Chemical Engineer Midwife Doctor Biologist Forensic Scientist Veterinary Surgeon Zoologist Research Scientist Science Teacher Mechanical Engineering Geologist Meteorologist Surgeon Nurse	<ul style="list-style-type: none"> <li>• Planning</li> <li>• Health and safety</li> <li>• Data analysis</li> <li>• Data interpretation</li> <li>• Statistics</li> <li>• Critical thinking</li> <li>• Observation</li> <li>• Attention to detail</li> <li>• Problem-solving</li> <li>• Communication</li> <li>• IT</li> </ul>

Future Prospects			Careers	Skills
Geography				
		<p>There are a wide range of career options available to students who study Geography. Geography is a dynamic subject, which lends itself to most occupations. It is a relevant subject as it covers issues such as concern for the environment and the issue of sustainability. As an academic subject, employers are keen to employ students who have been successful in Geography.</p>	<p>Town Planner Geographer Travel Agent Logistics Manager Surveyor Humanitarian Environment Planner Conservation Officer Geospatial Analyst</p>	<ul style="list-style-type: none"> <li>• Research</li> <li>• Evaluation of evidence</li> <li>• Writing</li> <li>• Construction of reasoned arguments</li> <li>• Communication</li> <li>• Problem solving</li> <li>• Planning</li> <li>• Prediction</li> <li>• Record-keeping</li> <li>• Cataloguing</li> <li>• IT</li> </ul>
History				
		<p>History can open the door for many different careers such as Law, teaching and management roles. Often the ability to look to the past can help you to understand the present and employers will always favour this.</p> <p>History develops a wide variety of skills and abilities that are useful and relevant to many careers. It develops skills in reasoning and arguing your point, which are useful to people working in law and accountancy so it is a subject that is highly valued by employers, colleges and universities.</p>	<p>Barrister Historian Museum Curator Archaeologist Archivist Anthropologist Media Researcher Broadcast Journalist Politician Teacher</p>	<ul style="list-style-type: none"> <li>• Research</li> <li>• Evaluation of evidence</li> <li>• Writing</li> <li>• Construction of reasoned arguments</li> <li>• Communication</li> <li>• Problem solving</li> <li>• Planning</li> <li>• Prediction</li> <li>• Record-keeping</li> <li>• Cataloguing</li> <li>• IT</li> </ul>
Languages				
		<p>Many professional and international companies seek employees who are able to speak a foreign language, and will often pay a higher salary for this skill.</p> <p>Almost all University courses include an option to add study of a foreign language and / or study abroad.</p>	<p>Translator PR Officer Reporter Journalist Speech Therapist Tour Guide Humanitarian Copywriter Diplomat Marker Researcher</p>	<ul style="list-style-type: none"> <li>• Communication in at least two languages</li> <li>• Translation and interpretation</li> <li>• Knowledge of grammar</li> <li>• Writing</li> <li>• Presentation</li> <li>• IT</li> <li>• Cultural awareness</li> <li>• Adapting to new surroundings</li> <li>• Team-working and working alone</li> </ul>



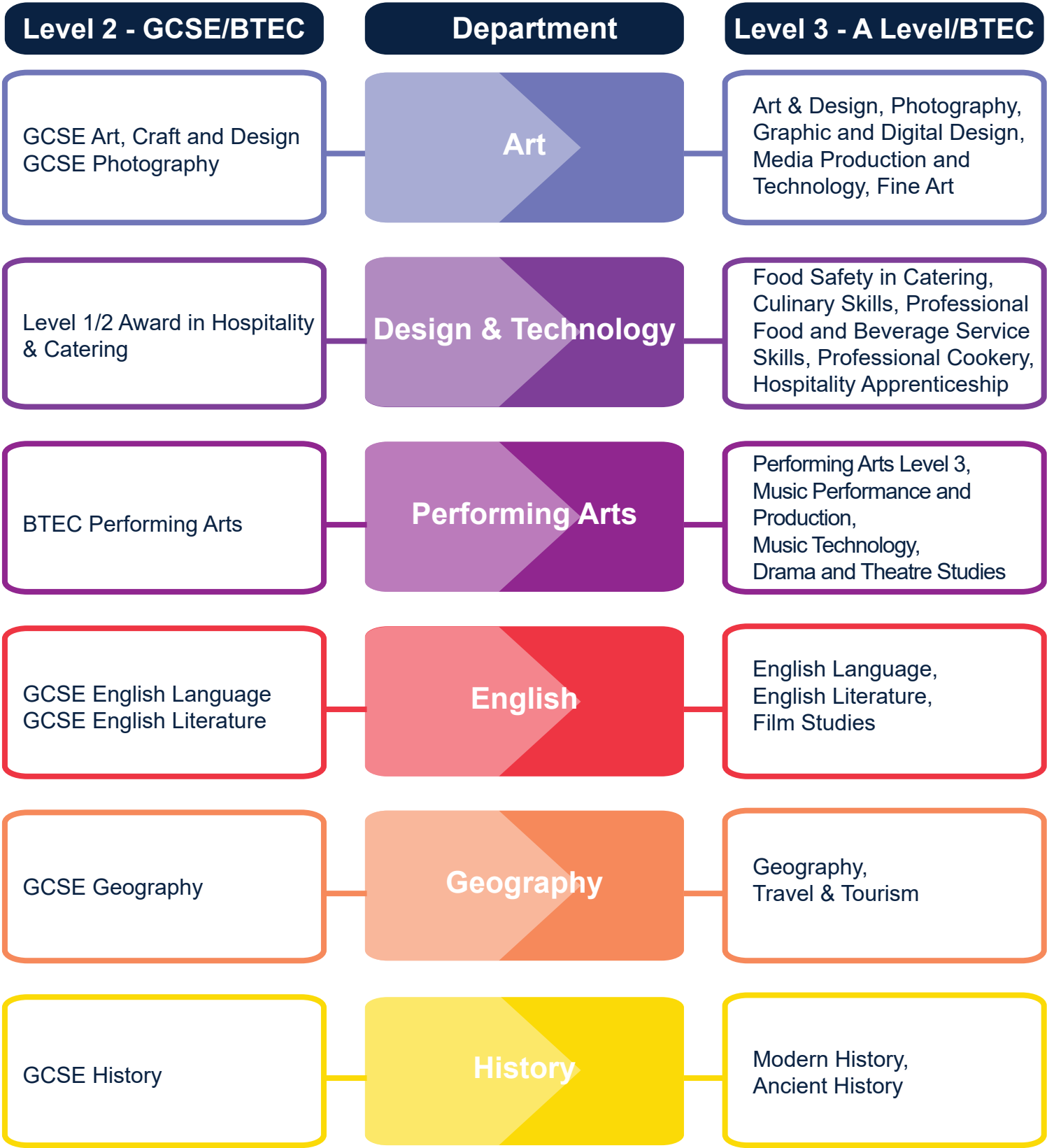
Future Prospects			Careers	Skills
Art, Craft & Design		<p>A GCSE in Art, craft and design will prepare you for AS and A-level, where the same titles are available. If you're creative and imaginative, a career in art could be just what you're looking for to express yourself. Art may not be a vocational subject – that is, one that leads to a specific career – but this doesn't mean it won't be a good preparation for the world of work.</p> <p>Whether you choose to specialise in a specific field of art, the skills you gain during your studies are likely to be highly valued and transferable to many sectors, including specialised art careers as well as many others. In the majority of the art careers it is essential or highly advantageous to have a varied portfolio of work to show prospective employers, including some of your own original ideas as well as coursework.</p>	<p>Artist Graphic Designer Crafts Designer Furniture Designer Illustrator Art Auctioneer Gallery and Museum Curator Film and Video Editor Landscape Designer Textile Designer Web Designer Games Designer Interior Designer Photographer</p>	<ul style="list-style-type: none"> <li>• Technical abilities</li> <li>• Practical skills</li> <li>• Creativity</li> <li>• Communication skills</li> <li>• Design and craft skills</li> <li>• Decision making</li> <li>• Collaborative working</li> </ul>
Photography		<p>Many photographers are freelance and you could do a mix of contract work and following your own interests. You could extend your range into other areas of photography like product, property, aerial or corporate work. With training, you could also work within the armed forces, as a press or police photographer. If you do specialist qualifications after your GCSEs, you could find jobs in medical photography or illustration. Photography is very competitive, so you'll need creativity and technical skills to make money. You'll also need finance for equipment, a space to work in, and some business and admin skills. You could increase your income by selling your images independently.</p>	<p>Agent Assistant photographer Director of photography Drone pilot Medical illustrator Photographic stylist Photographic technician Graphic designer Magazine features editor Television camera operator</p>	<ul style="list-style-type: none"> <li>• Creativity</li> <li>• Technical photography skills</li> <li>• Patience and concentration</li> <li>• Attention to detail</li> <li>• Strong networking skills</li> <li>• Team working skills</li> <li>• Research</li> <li>• Evaluation of evidence</li> <li>• Writing</li> <li>• Communication</li> <li>• Problem solving</li> <li>• Planning</li> <li>• Prediction</li> <li>• Record-keeping</li> <li>• Cataloguing</li> <li>• IT</li> </ul>
Hospitality		<p>The hospitality industry is a highly varied one, which is why it's appealing to people from a multitude of backgrounds and skills. In general, hospitality is any job that involves working with customers face-to-face, or working behind the scenes in positions that may include food service and catering. Employers in this field range from smaller, family-run businesses to international organisations.</p> <p>There's a niche career for anyone interested in applying their unique skill set to the hospitality industry. Although hotels and travel cover a significant portion of the industry, these two areas are far from the only options available. In England, the hospitality sector has been boosted by economic conditions, making it a thriving industry that's constantly expanding.</p>	<p>Restaurants, eateries, and catering Event and conference planning Bars, pubs, and clubs Travel agencies and tourism Hotel management and hotel staff Business and marketing Tour guides and tour operators Passenger services Cafes, coffee houses, and juice bars Entertainment organisers Customer service representatives Spas, fitness, and health and wellness facilities</p>	<ul style="list-style-type: none"> <li>• Communication. Communicating clearly and professionally through your speech, writing, and body language is essential to good customer service in hospitality</li> <li>• Resilience</li> <li>• Initiative</li> <li>• Multitasking</li> <li>• Adaptability</li> <li>• Attention to detail</li> <li>• Cultural awareness</li> <li>• Compliance training</li> </ul>



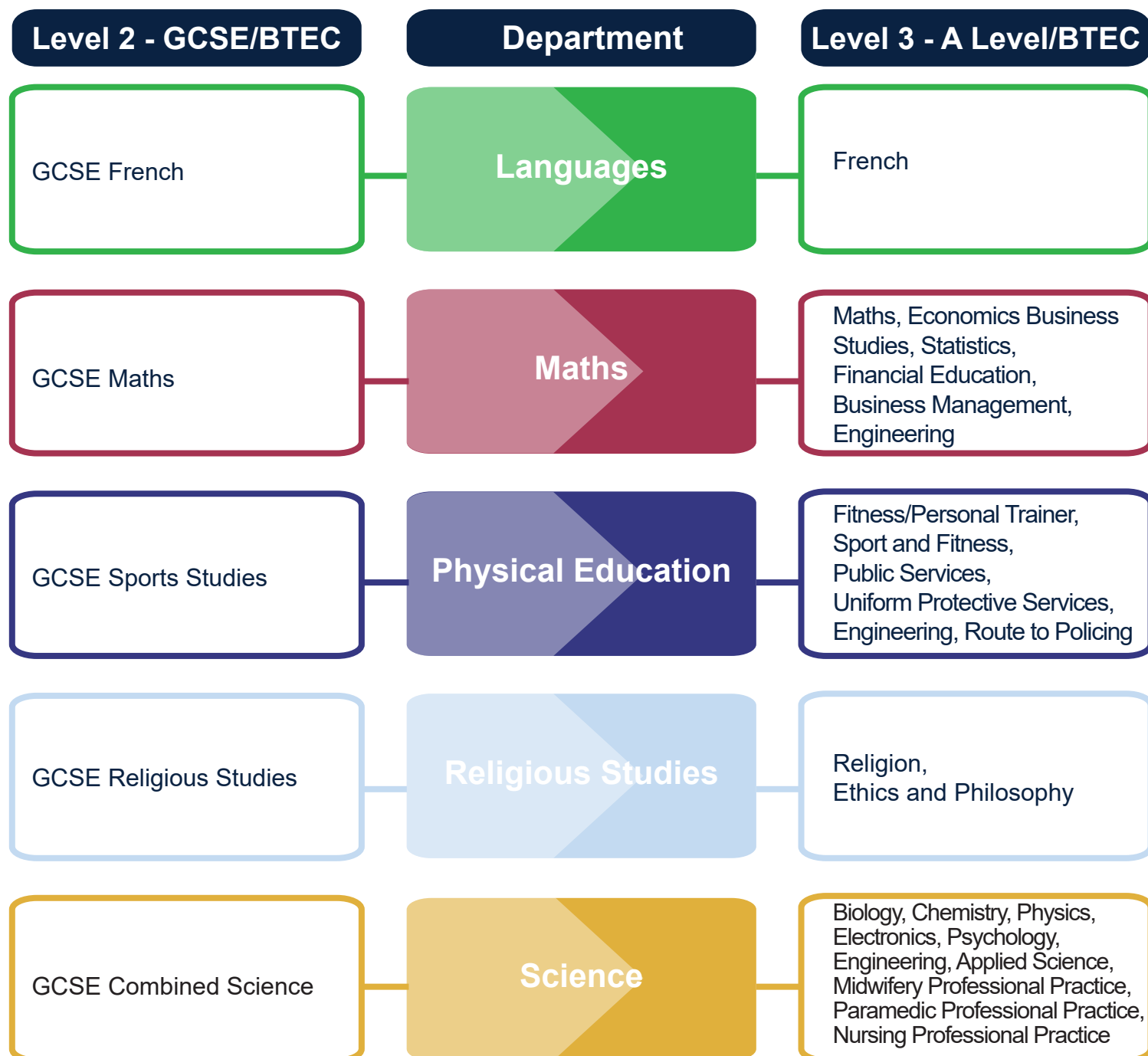
Future Prospects		Careers	Skills
Performing Arts (Drama)			
	<p>The performing arts are a major part of the creative and cultural industries in the UK. Overall, the industry contributes £3.5 billion to the UK economy. There are 5,480 businesses and 101,593 people working in the performing arts sector. Study of this sector at Key Stage 4 will provide an opportunity for practical exploration and application alongside conceptual study, leading to strong opportunities to progress at post-16.</p> <p>A BTEC in Acting shows an employer that a student has confidence and good communication skills and an ability to work independently. It is an excellent subject to take in order to show diversity of interest and creativity. Acting graduates are statistically proven to be those who found employment the easiest after leaving university.</p>	<p>Actor Broadcast Journalist PR Manager Set Designer Film Producer School Teacher Screenwriter Film Director Drama Therapist Youth Worker Theatre Director Technical Theatre Design Drama Teacher</p>	<ul style="list-style-type: none"> <li>• Knowledge and understanding of Style, genre and social context</li> <li>• Performance techniques - interpretation, improvisation, voice, physicality, stage relationships with others</li> <li>• Design skills</li> <li>• Technical abilities</li> <li>• Practical skills</li> <li>• Collaboration and communication skills</li> <li>• Enquiring and reflective minds</li> <li>• Independent thinking and working</li> </ul>
Religious Studies			
	<p>A GCSE in Religious Studies is a stepping stone to a wide range of future opportunities. The skills you develop will support you in further studies and employment.</p> <p>Religious Studies provides a good background for any career where understanding people is an asset. Employers like to know that applicants have thought a bit about themselves and their place in the world. They expect them to be able to work with a wide range of people- often from different cultures- and to treat them all with courtesy and respect. In helping you to develop such understanding and insights about yourself, Religious Studies has a real part to play. These skills are vitally important in all careers especially professions such as the police, retail, teaching, the law, the caring professions and the armed forces, in fact any profession that brings you into contact with other people.</p>	<p>Journalist Editor Politician Government/Civil Service Policy Manager Legal Services Police Service Charity sector Counsellor Marketing</p>	<ul style="list-style-type: none"> <li>• Research, analysis and presentation skills</li> <li>• Critical thinking skills and the ability to interpret information. formulate questions and solve problems</li> <li>• Organisational and time management skills</li> <li>• Team-working and communication skills</li> <li>• Writing skills, including accurate referencing and the ability to construct a reasoned argument</li> <li>• IT skills</li> <li>• Empathy</li> <li>• The ability to work methodically and accurately</li> <li>• Independence and the ability to think for yourself</li> </ul>
Sport			
	<p>This course is an appropriate gateway to a range of exciting careers and opportunities in the sporting industry. Successful completion of the course offers an appropriate foundation for level 3 Sports courses such as A Level Physical Education and BTEC National Diploma in Sport and Exercise Sciences. Candidates who successfully follow this pathway can look towards a career in a range of different professions.</p>	<p>Sport Professional Sports Coach Sports Development Officer Physiotherapy Biomechanist Sports Scientist Physiologist PE Teacher Personal Trainer Sports Coach Professional Athlete Sports Development Officer</p>	<ul style="list-style-type: none"> <li>• Team work</li> <li>• Presentation and oral communication</li> <li>• Time management and planning</li> <li>• Keeping to rules</li> <li>• Health and safety</li> <li>• Determination</li> <li>• Motivation - self and team</li> <li>• Resilience</li> </ul>

# 14-19 Pathway through Education

The information below shows subjects grouped at GCSE and Post 16 courses. Not all GCSE and BTEC courses in each group lead directly onto the Post 16 course - more guidance on this should be sought from subject leaders.



# 14-19 Pathway through Education



# Core Curriculum: Pathway P

All students on this pathway will study the following subjects:

- English
- Mathematics
- Science
- Core PE
- PHSE / RE

## Physical Education

Physical education, sport and regular physical activity is part of a deep, rich, broad and exciting curriculum. It provides children and young people with the opportunity to express themselves physically, challenge themselves and others, experience different environments and activities, work together and release energy which helps de-stress and lowers anxiety levels. Research is very clear about the benefits of physical activity and with the growing concern surrounding social, emotional and mental well-being, particularly amongst children and young people. All year 10 pupils will receive two hours of PE to complement their curriculum choices and provide them with the opportunity to get involved in a range of activities that develops personal fitness and promotes an active, healthy lifestyle.

## PSHE

Personal, Social, Health and Economic (PSHE) education is a school subject through which pupils develop the knowledge, skills and attributes they need to manage their lives, now and in the future. It helps young people to stay healthy and safe, while preparing them to make the most of life and to meet their full potential both academically and socially. In year 10, PSHE lessons will include some focus on the relationships and sex education (RSE) aspect of this programme, this falls into the 'Relationships' units. The other two units covered are called 'Health & Wellbeing' and 'Living in the Wider World'. All pupils will receive an hour of PSHE on their weekly timetable as part of our core offer.

## Religious Education

Religious Education is a statutory requirement. Through this non-examined course students will reflect on the fact that the religious traditions of Great Britain are, in the main, Christian, whilst taking into account other principal faiths represented in this country - Buddhism, Hinduism, Islam, Judaism and Sikhism including non-religious world views such as Humanism.

The following are some of the questions that pupils will be exploring:

- What does it mean to be human? (The value and nature of human life. How faith or no faith affects the choices we make in life.)
- Do you need to be religious to be moral? (Relationships, drugs, crime and punishment).
- How do religion and science relate to each other? (Including medical ethics)

# Core Subject - English (GCSE)

SYLLABUS TITLE: GCSE English Language [8700] & GCSE English Literature [8702]

AWARDING BODY: AQA

## Course Outline - What will you learn?

The GCSE English Language course equips students with the key reading, writing and spoken language skills to assist them when they enter the wider world of further education and employment. It involves studying both fiction and non-fiction texts from the 19th, 20th & 21st centuries and writing in a range of genres and styles, including creative writing and viewpoint writing.

The GCSE English Literature curriculum provides pupils with the analytical skills to approach and understand a variety of literary texts including poetry, prose and plays. The subject inspires and enhances every learner's personal writing style as they study respected, classic writers from the Shakespearean era through to today's contemporary period. The discussion of topics and ideas that influence these texts allows students to examine their own cultural heritage and the development of societal attitudes in both history and presently in the modern world.

## GCSE English Language

Paper 1 – Explorations in Creative Reading & Writing

Paper 2 – Writers' Viewpoints & Perspectives

## GCSE English Literature

Paper 1 – Shakespeare ['Romeo and Juliet'] & the 19th Century Novel ['A Christmas Carol']

Paper 2 – Modern Play ['An Inspector Calls'] & Poetry ['Power and Conflict' Anthology]

## Spoken Language

An individual speech based on a topic of choice

Both courses are examination-only with 9-1 GCSE grades awarded following national assessments at the end of Year 11. The spoken language element is assessed separately in an individual speech activity [classroom-based and teacher assessed]. This aspect has no bearing on GCSE grading, but is judged as either a pass, merit or distinction and referenced on each student's GCSE English Language certificate.

## Support Available

Regular and expert feedback, revision guides, passionate teaching supported by high-quality resources, Google Classroom platform for additional and virtual learning/revision, AQA course materials to aid learning, weekly word quizzing and 'WiKi' vocabulary strategy support, booster sessions etc.

## Progression & Career Opportunities

The ability to read, write and communicate is vital for all forms of further education and employment.

For college and university education, possible learning pathways include AS & A levels and a degree in English Language, English Literature, creative writing, media studies, journalism, drama/performance and theatre studies.

The skills acquired when studying these courses are keenly sought and expected by employers within most skilled work/industries. Specifically, these GCSEs can lead to opportunities in the following industries or roles:

- |                  |                         |                    |
|------------------|-------------------------|--------------------|
| ● Journalism     | ● Drama and performance | ● Advertising      |
| ● Publishing     | ● Law                   | ● Marketing        |
| ● Education      | ● Social work           | ● Editor           |
| ● Creative media | ● Librarian             | ● Customer service |

# Core Subject - Maths (GCSE)

SYLLABUS TITLE: Edexcel GCSE (9-1) Mathematics (601/4700/3)

AWARDING BODY: Pearson Edexcel

## Assessment

You will be assessed using the new 9 - 1 grading system where 9 is the highest grade. There has been an increase in breadth and depth of content and a greater emphasis on questions at the highest grades.

The assessment is available at two tiers of entry:

Foundation tier will cover grades 1-5

Higher tier will cover grades 4– 9

Each entry level consists of 3 exam papers which have to be taken at the end of Year 11.

Paper 1 – Non-calculator: 1hr 30mins

Paper 2 – Calculator: 1hr 30mins

Paper 3 – Calculator: 1hr 30mins

## Course Outline - What will you learn?

Using a mastery approach, you will be encouraged and supported in developing logical reasoning and problem-solving skills. You will learn and apply skills using the CPA (Concrete, Pictorial, Abstract) approach, as the GCSE is designed to build on the learning from previous key stages. The aim is to build mathematical confidence by creating links between the topics studied and their importance in real life and society. This course also offers opportunities to develop your IT and communication skills.

All of the attributes required for this course are what potential employers will look for, as well as being useful to you if you choose further and higher education.

## Support Available

As well as lessons planned to support and engage, teachers will also be available before and after school as well as break and lunch times.

We also offer a range of online resources to support and extend learning beyond the classroom.

## Progression & Career Opportunities

Maths can open doors to some of the highest paid, interesting and rewarding jobs in the world.

- Aerospace Engineer
- Economist
- Statistician
- Cryptographer
- Astronomer
- Optician
- Games Designer
- Software Tester
- Accountant
- Teacher

# Core Subject - Science (GCSE)

SYLLABUS TITLE: GCSE Combined Science Trilogy (8464)

AWARDING BODY: AQA

## Assessment

You will be entered for two 9-1 GCSEs (higher or foundation tier)

There are two exam papers for each science (6 in total). These are each 1 hour and 15 minutes long. Within these exams, you will be expected to know details about 'required practical activities' which will be covered in lessons.

All exams take place during the summer term of year 11.

## Course Outline - What will you learn?

Studying science will help you develop your understanding of the fundamental concepts of how the world works. You will cover a wide range of underlying big ideas and build on your knowledge from KS3. As science is primarily the application of knowledge, you will be carrying out practical investigations and relating this to given situations.

Within each science you will study;

**Biology:** 1. Cell biology, 2. Organisation, 3. Infection and response, 4. Bioenergetics, 5. Homeostasis and response, 6. Inheritance, variation and evolution, 7. Ecology.

**Chemistry:** 1. Atomic structure and the periodic table, 2. Bonding, structure, and the properties of matter, 3. Quantitative chemistry, 4. Chemical changes, 5. Energy changes, 6. The rate and extent of chemical change, 7. Organic chemistry, 8. Chemical analysis, 9. Chemistry of the atmosphere, 10. Using resources.

**Physics:** 1. Energy, 2. Electricity, 3. Particle model of matter, 4. Atomic structure, 5. Forces, 6. Waves, 7. Magnetism and electromagnetism.

## Support Available

Teacher support is available before and after school as well as at breaks and lunch time. Extra support sessions may be put in place if the teacher deems this necessary.

## Who is this course for?

The course is aimed at all learners who wish to continue a deeper, academic study of science. Lessons will be in the same format as you have already experienced, with a large practical focus where applicable. Some questions are shorter answers and some require more extended responses and you will have the opportunity to investigate your predictions within class. We always ask that you try your best and take an active role in lessons and your learning, coming well equipped every lesson.

## Progression & Career Opportunities

People with GCSEs in Science are some of the most employable people in a wide variety of careers. Science opens up opportunities in a wide range of careers:

- Medicine
- Dentistry
- Animal Health
- Music
- Technology
- Sport Science
- Engineering
- Psychology

And some careers you may not have thought of ...

- Finance
- Medicine
- Marketing
- Photography
- Art Restoration
- Media & Film Technology
- Food Technology



