



Dedication

Determination

Destiny



Our curriculum provision is based around our core values and vision for the academy: *dedication, determination* and *destiny*. When students are dedicated to their studies and determined to succeed, all will achieve their destiny.

We pride ourselves on being able to offer options choices underpinned by the belief that our curriculum will:

- Provide success for all children.
- Offer a breadth of experience and opportunity.
- Offer students the chance to pursue their interests and foster their enthusiasm in different disciplines.

Art and Design: 2 – 5

Digital Literacy: 6 – 7

Drama: 8

English: 9

Geography 10

History: 11

Maths: 12

MFL: 13 – 14

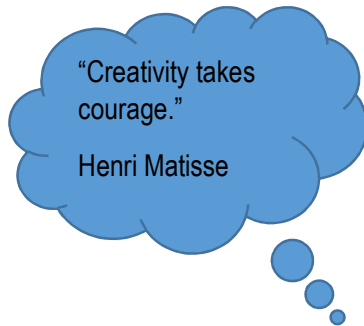
Music: 15

P.E: 16

Science: 17

Option Booklet Year 8 into Year 9

Art and Design: Art



Dedication

Why should you study it?

Studying at year 9 will prepare students for GCSE Art or GCSE Photography in year 10, students can in the future apply for design degrees in visual arts, Illustration, digital design, games design, interior design, architecture and fine art

What content will be covered?

Unit 1 – candidate portfolio. This is an introductory portfolio of skills that students will work with able to gain confidence before undertaking GCSE Art & Photography at year 10.

Determination

What will you be able to do by the end of the year?

Students will gain knowledge of the use of monochrome, colour, wet & dry media and materials, there will also be an opportunity to study photography, 3D relief and ceramics, students will learn how to present their work to GCSE standard by working to A3 size and will have two lessons a week to develop their research, experimentation, recording of ideas that will lead to a three smaller outcomes over sustained time.

How will you be assessed?

The assessment is continuous throughout the year as the course is 75% practical based skills with 25% written analysis.

4 Assessment objectives taught across the year:

A01: Research and ideas

A02: Experimentation

A03: Recording

A04: Development, Outcome and evaluation.

Destiny

How will studying the subject benefit you?

Students who study the arts can learn to think creatively. This kind of education can help them solve problems by thinking outside the box and therefore making them highly employable to many different industries. Students who enjoyed year 8 Art will enjoy this more focused one year taster course. GCSE and A level can lead to degree courses and careers studying Graphic design, illustration, Photography, Advertising, and Publishing. The visual arts industry is currently the 5th most growing sector of the economy in the UK.

Option Booklet Year 8 into Year 9

Art and Design: Food and Nutrition

"If you are a chef, no matter how good a chef you are, it's not good cooking for yourself; the joy is in cooking for others."



Dedication

Why should you study it?

Students will learn a range of theoretical and practical skills that would be useful for further training at College to be a chef, patisserie chef or kitchen manager. Apprenticeships at 16 or 18 are also alternative possibilities for students who want on the job experience. Hospitality is a highly employable skill and there is high employability within this sector beyond education in the UK.

What content will be covered?

Students will learn in-depth skills in: health and safety, health and hygiene, prepping food, dough, pastry, patisserie, free from baking, cultural food and planning a menu. Students learn about the theory of food and cooking. Where food originates and how to combine flavours and styles from different continents of the world to create dishes to a high professional standard.

Determination

What will you be able to do by the end of the year?

Studying at year 9 will prepare students for GCSE food and nutrition by learning basic skills in cooking from all 6 food groups, students learn about the theory of food and cooking. Where food originates and how to combine flavours and styles from different continents of the world.

How will you be assessed?

Unit 1 – Theory of food and nutrition – 3 x termly tests in year 9

Unit 2 – A series of cultural cooking and baking experiments and recipes that build toward the skills required for the controlled assessments in year 9.

Destiny

How will studying the subject benefit you?

Students who study the arts can learn to think creatively. This kind of education can help them solve problems by thinking outside the box and therefore making them highly employable to many different industries. Students who enjoyed year 8 Food will enjoy this more focused one year taster course, success at GCSE and A level can lead to studying hospitality cooking at College which will in turn can lead to many careers in the hospitality industry.

Option Booklet Year 8 into Year 9

Art and Design: Graphics

"There are three responses to a piece of design – yes, no, and WOW!"

Milton Glaser



Dedication

Why should you study it?

Studying at year 9 will prepare students for GCSE Graphics in year 10, students can in the future apply for design degrees in visual arts, Illustration, digital design, games design and website design.

What content will be covered?

Unit 1 – candidate portfolio.

This is an introductory portfolio of skills that students will work with able to gain confidence before undertaking GCSE Graphics at year 10.

Determination

What will you be able to do by the end of the year?

Students will gain knowledge of the use of monochrome, colour, wet, dry and digital media, there will also be an opportunity to study Adobe Photoshop and illustrator. Students will learn how to present their work to GCSE standard by working to A3 size and will have two lessons a week to develop their research, experimentation, recording of ideas that will lead to a three smaller outcomes over sustained time.

How will you be assessed?

There are four Assessment objectives taught across the year: A01 research and ideas, A02 experimentation, A03 recording, A04 outcome and evaluation. The projects are:

Autumn term – T-shirt Design

Spring term – Vinyl Cover and net design

Summer Term – Mini skateboard/surfboard design

Destiny

How will studying the subject benefit you?

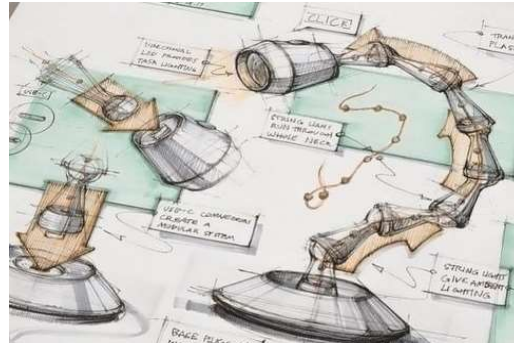
Students who study the arts can learn to think creatively. This kind of education can help them solve problems by thinking outside the box and therefore making them highly employable to many different industries. Students who enjoyed year 8 DT will enjoy this more focused one year taster course. GCSE and A level can lead to degree courses and careers studying Graphic design, illustration, Photography, Advertising, and Publishing. The visual arts industry is currently the 5th most growing sector of the economy in the UK.

Option Booklet Year 8 into Year 9

Art and Design: 3D Design

"There are three responses to a piece of design – yes, no, and WOW!"

Milton Glaser



Dedication

Why should you study it?

Studying at year 9 will prepare students for GCSE 3D Design in year 10, students can in the future apply for degrees in architecture, product design, jewellery design, spacial design and modelling for animation.

What content will be covered?

Unit 1 – candidate portfolio.

This is an introductory portfolio of skills that students will work with and be able to gain confidence with 3D materials before undertaking GCSE 3D design in year 10.

Determination

What will you be able to do by the end of the year?

Students will gain knowledge of the use of drawing skills, digital design and experimentation with different 3D materials. Students will learn how to present their work to GCSE standard by working to A3 size and will have two lessons a week to develop their research, experimentation, recording of ideas that will lead to two different 3D outcomes.

How will you be assessed?

There are four Assessment objectives taught across the year - A01 research and ideas, A02 experimentation, A03 recording, and A04 outcome and evaluation.

Destiny

How will studying the subject benefit you?

Students who study the arts can learn to think creatively. This kind of education can help them solve problems by thinking outside the box and therefore making them highly employable to many different industries. Students who enjoyed year 8 DT will enjoy this more focused one year taster course. GCSE and A level can lead to degree courses and careers studying Graphic design, illustration, Photography, Advertising, and Publishing. The visual arts industry is currently the 5th most growing sector of the economy in the UK.

Option Booklet Year 8 into Year 9

Digital Literacy: Computer Science

"The computer was born to solve problems that did not exist before."

Bill Gates



Dedication

Why should you study it?

Computer science is a selective subject: students wishing to study it should be in top set maths with a target of 7 or above. Computer Science offers many opportunities both in further study and employment. Studying this course can open doorways in to careers in maths, science, medicine, arts and technology. Upon studying this course students will develop skills essential for the next chapter such as logical reasoning, problem solving, perseverance and patience.

What content will be covered?

Within this course students will study number systems such as binary and hexadecimal, they will develop logical and computational thinking skills. They will develop skills in programming languages such as logo and python. They will develop an understanding in computer architecture and fundamentals.

Determination

What will you be able to do by the end of the year?

Upon successful completion of the course students will be able to write and create their own working programs in both python, python turtle, python easygui, logo and greenfoot. They will be able to understand how computers communicate and decode binary instructions in to understandable text, they will be able to apply binary and logic to computer science problems and create a solution.

How will you be assessed?

Students will complete end of topic tests as well as a practical programming assessment in each language. Programming offers great opportunities for self and peer assessment throughout the constant testing of programs.

Destiny

How will studying the subject benefit you?

Computer science has strong links with the sciences and maths, but also has links within the creative industry. Many successful computer science students have gone on to have careers in game design, music production and film production. Students will have a greater capacity for problem solving, logical reasoning and be confident users and innovators of technology.

Option Booklet Year 8 into Year 9

Digital Literacy: ICT

"Any sufficient advanced technology is indistinguishable from magic."

Arthur C. Clarke.



Dedication

Why should you study it?

In today's society, information and information technology are global and influence all forms of human activity.

What content will be covered?

Within this course learners will gain understanding in effective and safe use of technology including being cyber smart, they will look at digital graphics, spreadsheet modelling, databases, word processing, desktop publishing and web design.

Determination

What will you be able to do by the end of the year?

Students will be confident technology users proficient in those skills essential to further study and in the work place. They will have also developed some practical and technical skills that beyond the average IT student. They will have successfully coded a working webpage and be able to understand the basic language behind the website, they will be able to use the office package to improve efficiency and they will be able to be cyber safe at all times.

How will you be assessed?

Students will sit end of topics assessments and be assessed on the web design and digital graphics units.

Destiny

How will studying the subject benefit you?

Information technology is a corner stone of daily life, successful students will be able to apply the knowledge and skills garnered and apply them not only to their school work and future study but within the work place as well.

Option Booklet Year 8 into Year 9

Drama

"Theatre is a form of knowledge; it should and can also be a means of transforming society. Theatre can help us build our future, rather than just waiting for it."
Augusto Baol



Dedication

Why should you study it?

Drama develops confidence, creativity and team work skills, all essential for further education and the modern employment industry. You may be a student who wants to further your performance skills in order to pursue future employment or courses in this field or you may wish to develop the hugely recognised transferable skills that this course develops.

What content will be covered?

Students will study practitioners and styles of theatre that are on the GCSE specification. They will develop devised scenes in response to different stimuli in the style of specific practitioners or genres. They will also develop performance skills through exploring and performing both scripted and devised plays. They will also evaluate their work so students will develop their written evaluation skills and use of subject specific terminology throughout the course.

Determination

What will you be able to do by the end of the year?

By the end of the year student will be able to confidently perform and devise theatre in the style of the practitioners that we have explored. The course involves developing written skills through self-evaluation as well as the academic study of plays therefore students will be able to write with analytical detail and knowledge.

How will you be assessed?

Each assessment takes the form of a devised or scripted performance and then a timed written evaluation of their own work. Devised work will be in the style of specific genre or theatre practitioner.

Destiny

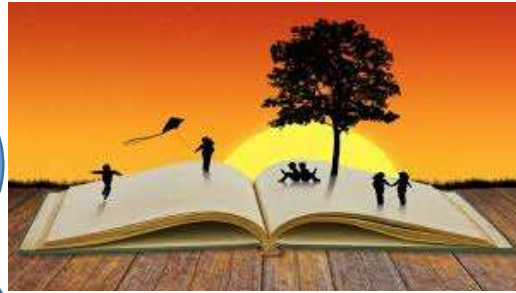
How will studying the subject benefit you?

Students who study drama develop confidence, oracy and literacy skills and the ability to work successfully with others. These are hugely beneficial and attractive qualities to future employers and future education providers. By developing knowledge of playwrights and theatre practitioners they will have a wider cultural understanding and knowledge. As well as the opportunities for employment and education Drama helps to develop and support the emotional and social well-being of an individual, the importance of which is increasingly recognised in modern society.

Option Booklet Year 8 into Year 9

English

“Develop an interest in life as you see it; the people, things, literature, music - the world is so rich, simply throbbing with rich treasures, beautiful souls and interesting people.”



Dedication

Why should you study it?

English has a pre-eminent place in education and in society. A high-quality education in English will teach pupils to speak and write fluently so that they can communicate their ideas and emotions to others and through their reading and listening, others can communicate with them. Through reading in particular, pupils have a chance to develop culturally, emotionally, intellectually, socially and spiritually. Literature, especially, plays a key role in such development. Reading also enables pupils both to acquire knowledge and to build on what they already know. All the skills of language are essential to participating fully as a member of society.

What content will be covered?

An analysis of key influences that inspired Steinbeck to write *Of Mice and Men*.

Shakespeare's tragic love story; *Romeo and Juliet*

Gothic/Dystopian Literature

A View from the Bridge – Modern Play

Love and Relationships poetry

Determination

What will you be able to do by the end of the year?

By the end of the year, you will be able to form a critical perspective on a variety of texts. You will be confident in reading and responding to texts, form your own interpretation and articulate ideas.

How will you be assessed?

Students will take a literature and language assessment 3 times across the year; once a term

Destiny

How will studying the subject benefit you?

Studying English will help students to develop their evaluative and analytical skills, these are transferable across all subjects. Studying English aims to ensure that all pupils:

- read easily, fluently and with good understanding
- develop the habit of reading widely and often, for both pleasure and information
- acquire a wide vocabulary, an understanding of grammar and knowledge of linguistic conventions for reading, writing and spoken language
- appreciate our rich and varied literary heritage
- write clearly, accurately and coherently, adapting their language and style in and for a range of contexts, purposes and audiences
- use discussion in order to learn; they should be able to elaborate and explain clearly their understanding and ideas
- are competent in the arts of speaking and listening, making formal presentations, demonstrating to others and participating in debate.

Option Booklet Year 8 into Year 9

Geography

"Geography is about understanding the complexity of our world, appreciating the diversity of cultures that exist across continents. And in the end it's about using all that knowledge to help bridge divides and bring people together." Barack Obama



Dedication

Why should you study it?

By choosing to study Geography you will develop and extend your knowledge of locations, places, environments and processes, and of different scales including global; and of social, political and cultural contexts. You will gain an understanding of the interactions between people and environments, places and cultures. It is a fun subject that will enable you to understand your place in the world and how you can make positive changes for the future.

What content will be covered?

Physical Geography: Global hazards; Changing Climate
Distinctive Landscapes.

Human Geography: Dynamic Development; UK in the 21st Century; Geographical Fieldwork

Determination

What will you be able to do by the end of the year?

After completion, students will have a better understanding of the world around them and will enable them to see how they can make a sustainable contribution to society, the natural world and the environment.

How will you be assessed?

Unit 1: Our Natural World consists of a written exam, lasting 1 hour minutes. It assesses students on the four topics covered and the physical geography fieldwork.

Unit 2: People & Society consists of a written exam, lasting 1 hour. It assesses students on the four topics covered and human geography fieldwork.

Destiny

How will studying the subject benefit you?

The geography curriculum will build on what has been and will take students to the next level of understanding. It will engage learners through the exploration of a number of geographical topics encapsulating both the geography of the UK and the rest of the world. Learners will be encouraged to make links between topics and challenge their previous ideas developed in geography through an enquiring approach to the content. This qualification aims to encourage learners to think like geographers through an enquiry approach to contemporary topics of study.

Option Booklet Year 8 into Year 9

History

"We are not makers of History, we are made by History."

Martin Luther King Jr.



Dedication

Why should you study it?

In History you will study the key figures and events from a range of historical periods – from the medieval to 20th century. This course will enable you to think independently, critically and sensitively. You will explore how nations and peoples have come to be how they are today, how the decisions of others have impacted the world and how we can use history to appreciate the society we live in today.

What content will be covered?

Medicine through Time c.10.00-present .

Conflict in the Middle East (Israel-Palestine).

The USA 1954 -1975: Conflict at Home and Abroad .

Mao's China 1945-1976.

Whitechapel 1870s and Jack the Ripper.

Determination

What will you be able to do by the end of the year?

By the end of Year 9 you will have a deep and meaningful understanding of how different factors have contributed to the changes and developments in Britain and Europe. You will consider the short and long-term impacts of events and people and be able to compare the past to current affairs. Your reasoning skills and ability to form coherent and convincing arguments will be much improved, allowing you to consider complex issues and both understand and challenge the viewpoints of others. Furthermore, you will develop the ability to understand how interpretations of the same issue can differ, and how sources can allow us to appreciate and comprehend events and people of a period.

How will you be assessed?

Students are assessed once each term in a written exam. This will focus on essay writing skills (e.g. on cause or consequence), evaluation of sources and analysis of interpretations.

Destiny

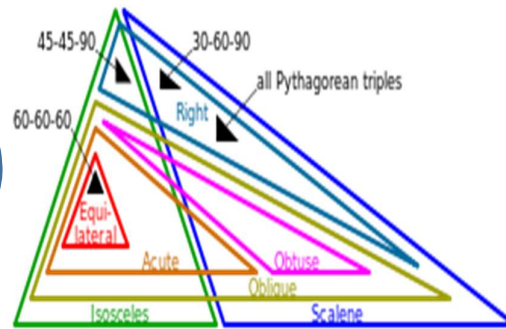
How will studying the subject benefit you?

Colleges and universities look for students who have studied History as it suggests someone with excellent analytical skills, strong written communication, and the ability to think critically and sensitively. Employers look for the same and History prepares you for many careers including: government/politics, law, teaching, researching, journalism, and broadcasting. The transferable skills will also make you an excellent candidate for employment with firms in accountancy, banking and finance, consultancy and many competitive graduate schemes.

Option Booklet Year 8 into Year 9

Maths

"No employment can be managed without arithmetic, no mechanical invention without geometry." Benjamin Franklin.



Dedication

Why should you study it?

Mathematics is involved in virtually every aspect of the modern world, and so is obviously compulsory for all.

What content will be covered?

Numbers and decimals, angles, bearings, rounding, fractions, algebra, collecting and representing data, coordinates and linear graphs, sequences, scatter graphs, percentages, areas and surface areas, circumference and area, ratio and proportion, probability and transformations.

Determination

What will you be able to do by the end of the year?

Mathematical study aims to both build on your current knowledge and introduce you to new ideas, the main aim is to make you a better problem solver and someone who can confidently absorb new and complex ideas.

How will you be assessed?

November, one paper 45 min.

February, two papers 45 min each.

June, two papers 45 min each.

Destiny

How will studying the subject benefit you?

Building on strong mathematical foundations is incredibly important, every year you study mathematics you will be introduced the concepts that might have never seen before, but the tools you learn at an early age enable you tackle anything that is thrown at you. The problem solving skills you learn from mathematics will be with you for life and can be applied to virtually any subject you study.

Option Booklet Year 8 into Year 9

MFL: Arabic

If you talk to a man in a language he understands, that goes to his head. If you talk to him in his language that goes to his heart." Nelson Mandela



Dedication

Why should you study it?

Languages are very important in our globalised world. Those who speak multiple languages have a much better chance of finding meaningful employment. Not only do they give you the edge in the job market but also offer greater opportunities to travel and live abroad. You'll develop amazing skills and a valuable talent that's applicable to almost everything you do. You don't just learn the language but you get to find out about other people, countries and cultures so it really is an interesting and varied subject.

What content will be covered?

A massive range of topics are covered in your language classes so as well as learning a language you also learn the culture and lifestyle of foreign countries. Your classes will focus on improving your listening, speaking, reading, and writing skills. Topics covered include: Identity and culture; local area, holiday, and travel; school; future aspirations, study and work.

Determination

What will you be able to do by the end of the year?

Study of MFL will prepare students for the listening, speaking, reading and writing examinations at the end of Year 11. Our aim is that pupils leave HASJW equipped to use their Arabic in leisure and work-related situations and are able to go on to study for an A-Level and beyond in a Modern Foreign Language should they wish to do so. In addition, we also teach students about the culture of Arabic speaking places around the globe, encouraging understanding and acceptance of other cultures and beliefs.

How will you be assessed?

Assessments test listening, speaking, reading and writing. In Year 9 and 10 students are assessed three times a year on their listening/speaking/reading and writing skills based on the topics they cover in lessons.

Destiny

How will studying the subject benefit you?

Languages combine well with virtually any other subject for further studying in higher education. Some of our best Universities may request the study of a language at GCSE as an entrance requirement for certain degrees, and numerous degrees are offered with the study of a foreign language alongside. For example, UCL requires all UK Honours Degree students to enter UCL with, or have developed by graduation, a basic level of language competence.

Option Booklet Year 8 into Year 9

MFL: French or Spanish

If you talk to a man in a language he understands, that goes to his head. If you talk to him in his language that goes to his heart." Nelson Mandela



Dedication

Why should you study it?

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What content will be covered?

A massive range of topics are covered in your language classes so as well as learning a language you also learn the culture and lifestyle of foreign countries. Your classes will focus on improving your listening, speaking, reading, and writing skills. Topics covered include: Identity and culture; local area, holiday, and travel; future aspirations and environmental issues.

Determination

What will you be able to do by the end of the year?

Study of MFL will prepare students for the listening, speaking, reading and writing examinations at the end of Year 11. Our aim is that pupils leave HASJW equipped to use their French or Spanish in leisure and work-related situations and are able to go on to study for an A-Level and beyond in a Modern Foreign Language should they wish to do so. In addition, we also teach students about the culture of French/Spanish speaking places around the globe, encouraging understanding and acceptance of other cultures and beliefs.

How will you be assessed?

Assessments test listening, speaking, reading and writing. In Year 9 and 10 students are assessed three times a year on their listening/speaking/reading and writing skills based on the topics they cover in lessons.

Destiny

How will studying the subject benefit you?

Languages combine well with virtually any other subject for further studying in higher education. Some of our best Universities may request the study of a language at GCSE as an entrance requirement for certain degrees, and numerous degrees are offered with the study of a foreign language alongside. For example, UCL requires all UK Honours Degree students to enter UCL with, or have developed by graduation, a basic level of language competence.

Option Booklet Year 8 into Year 9

Music

"Music gives a soul to the universe, wings to the mind, flight to the imagination and life to everything." Plato



Dedication

Why should you study it?

To develop a sense of achievement; development in creative thinking; a mastery of memory; increased coordination; emotional development; building imagination and intellectual curiosity; time to relax; preparation for the creative economy; teamwork; better self-confidence

What content will be covered?

Music in year 9 covers a wide range of musical skills, styles and topics which is planned to give them a passion, enthusiasm and the skills needed to be successful in year and beyond. These topics include film music, reggae, the music industry (where students will explore a wide range of jobs available in the music industry and what each of these roles entails), and introduction to recording, musical futures: band practice, and free composition.

Determination

What will you be able to do by the end of the year?

Students will have developed their skills in performance and composition and have grown in confidence through regular class performances. Performance skills will also develop through free, weekly one to one peripatetic instrumental lessons. Students' knowledge of the music industry will be enhanced and an understanding of job opportunities and responsibilities within these roles will be understood. Students will also be able to set up, record and edit tracks in the recording studio.

How will you be assessed?


Most topics will be assessed practically either through assessment of a composition or performance. This will assess students' understanding of the roles and responsibility of different jobs available in the music industry. Introduction to Recording is assessed throughout the term based on their continued contributions to the recording of the school album. Students will reflect weekly on what they have learnt and what they have participated in which is a significant part of the assessment. The quality of the final recording for the school album will also contribute to the assessment.

Destiny

How will studying the subject benefit you?

Students have explored different instruments, styles of music and composition throughout year 7 and 8. The year 9 curriculum is planned to further enhance and develop these skills which is supported by their weekly, free one to one instrumental lessons. Year nine introduces student's to the wider world of music careers, understanding the importance of different job roles in the industry, as well as allowing them to get into the recording studio to create their own music. The course will develop aspiration, passion and the skills needed to be successful in a career in music, whichever route student's wish to take. A music education not only provides students with an understanding of music and skills within the subject, but can enhance the skills required for other subjects; memory, motor-skills, team work, creativity, discipline and emotional development, to name a few.

PE



Option Booklet Year 8 into Year 9

R.E.

“Just as a candle cannot burn without fire, one cannot live without a spiritual life.” Buddha.



Dedication

Why should you study it?

Religion is a major source of inspiration, meaning, and controversy in human culture, shaping history, politics, economics, art, and literature. One cannot hope to understand world history and literature without knowledge of religion. Debates over science and religion, as well as religion and law, are often front-page news. Throughout history, inquiry into religions has inspired and challenged. Religious ritual and belief are also among the most powerful forces uniting past and present, shaping memory and identity from generation to generation, across human history.

What content will be covered?

You will study 6 key topics during Y9, Y10 and Y11:

- Christianity
- Islam
- Religion, peace and conflict
- Religion, human rights and social justice
- Religion, crime and punishment
- Relationships and families

Determination

What will you be able to do by the end of the year?

By the end of the course you will be able to describe the core beliefs of both Muslims and Christians. You will also be able to explain how they express their faith in the day to day practices of each faith. Beyond the core elements of the faith you will also explore religious views on families, war, equality and punishment. Assessing the influence of religion upon the perceptions of each topic.

How will you be assessed?

You will have two exams – each 1 hour 45 minutes long:

1. Paper 1: Beliefs, Teachings and Practices
2. Paper 2: Thematic Studies

Destiny

How will studying the subject benefit you?

In RE you will be discovering the fundamental beliefs that unite over half the entire population of the world. You will learn the motivations behind their practices and the impact religion has upon other areas of life. Studying RE can provide excellent training for a variety of careers, such as law, teaching, counseling, business, journalism, politics, writing, medicine, and the arts. RE encourages students to become well-informed and independent thinkers prepared to learn and engage in scholarly research techniques.

Option Booklet Year 8 into Year 9

Science

Nothing in life is to be feared, it is only to be understood. Now is the time to understand more, so that we may fear less. – Marie Curie



Dedication

Why should you study it?

Science teaches you the different processes at work all around us, ranging from small events happening in your cells to huge forces at work in the universe! Scientists never lose their wonder, as there is always more to find out. The carefully-planned curriculum will give you an insight into the various areas of science, giving you a good understanding of the fundamentals of our world but also an insight into the avenues you may wish to explore further at degree level.

What content will be covered?

Biology: Cells; Organisation; Infection and response; Bioenergetics; Homeostasis; Inheritance, variation and evolution; Ecology.

Chemistry: Atomic structure and the periodic table; Bonding, structure and properties of matter; Quantitative chemistry; Chemical changes; Energy changes; Rate and extent of chemical change; Organic chemistry; Chemical analysis; Chemistry of the atmosphere; Using resources

Physics: Energy; Electricity; Particle model of matter; Atomic structure; Forces; Waves; Magnetism and electromagnetism; Space physics

Determination

What will you be able to do by the end of the year?

By the end of the year, you will have secured an understanding of the key concepts underpinning science including atomic structure, electronic structure, cells, organisation and energy transfer. You will have considerably improved your practical, oral and application skills in order to become an investigative scientist. You will have also significantly improved your comprehension, literacy and mathematical skills.

How will you be assessed?

You will be assessed with one paper in terms 2, 4 and 6. Each paper will include a mix of the three disciplines: Biology, Chemistry and Physics. The assessments will be cumulative, meaning they will include content you have learnt from September up to that point.

Destiny

How will studying the subject benefit you?

You will have had the opportunity throughout the year to practice and hone your practical skills, including carrying out your own risk assessments. The layout of the curriculum will mean that you will be learning Biology, Chemistry and Physics topics intermittently, allowing you to develop your understanding of each discipline. A grasp of the key principles of each is applicable to many other subjects, including the humanities and arts; and for a better understanding of the world around you. Science is excellent for developing critical thinking skills and being able to analyse data to make conclusions based on evidence, which is important for many jobs and to be choices as an informed citizen. If minimum grade requirements are met you can go on to study A Levels in one or more of the sciences.