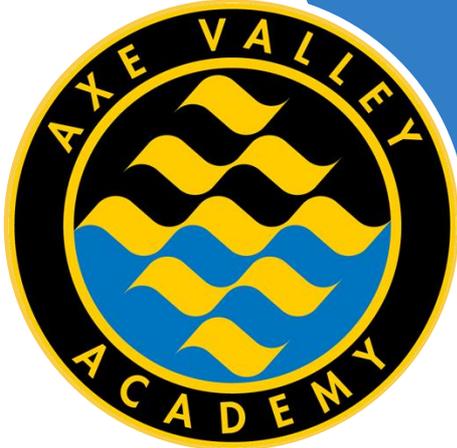


Year 9

Axe Valley Academy
Key Stage 4 Options Booklet

2022-2024



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Welcome to your Key Stage 4 Options

Dear Year 9 student,

This booklet is designed to guide you through one of the most important education choices you have ever had to make.

Choosing your Key Stage 4 programme of study is an exciting opportunity for you to reflect on what your curriculum strengths and interests are, as well as the career path you might wish to follow later in life. It is a chance to tailor a package of subjects and courses that you will enjoy and experience success in and that will provide you with a strong base from which to launch into the next phase of your education.

However, making your option choices can also be quite a daunting and stressful time. Over the next few weeks, you should discuss your ideas with as many people as possible: your teachers, your tutor, your parents/carers and any relatives who have taken GCSEs and other Key Stage 4 courses. Read this booklet very carefully, as it contains vital information about each of the courses. If you are confused about which subjects are compulsory and which are optional, or which combinations of option choices are allowed, do ask a teacher, Mr G Horn or myself for guidance.

I wish you every success with your decision-making.



Kevin Cumming
Assistant Head

Useful Contacts

Assistant Head (Curriculum):
Year Leader:

Mr K Cumming
Mr G Horn

kcumming@axevalley.uat.ac
ghorn@axevalley.uat.ac

Key Dates

February

- Printed copy of Options Booklet issued to students, electronic copies uploaded to Student Portal and MyChildAtSchool apps.
- Video presentations of subjects shown to tutor groups.
- 10th Year 9 Parents' evening

March

- 10th Option form issued
- 24th Option form submission deadline – Please return to the Exams office

June

- 10th Options letters sent to parents/students confirming Option



The Key Stage 4 Curriculum

The timetable runs on a two-week cycle and contains 50 x 1 hour periods and 10 x 25 minute tutor/assembly periods.

Core Subjects

The core courses that all students study are:

English Language	(GCSE)	Physical Education	(Non-Examined)
English Literature	(GCSE)	PSHE	(Non-Examined)
Mathematics	(GCSE)	Religious Education	(Non-Examined)
Biology	(GCSE)		
Chemistry	(GCSE)		
Physics	(GCSE)		

Option Subjects

Students will study four subjects from the following option courses:

Certificate in Acting for Performing Arts Practitioners			(RSL)
Art & Design	(GCSE)	Health & Social Care	(Cambridge National)
Computer Science	(GCSE)	History	(GCSE)
Creative iMedia	(Cambridge National)	Music	(GCSE)
Design & Technology	(GCSE)	Photography	(GCSE)
French	(GCSE)	Religious Studies	(GCSE)
Food Preparation & Nutrition	(GCSE)	Statistics	(GCSE)
Geography	(GCSE)	Sports Science	(Cambridge National)

Qualifications

GCSE qualifications

Most of the option subjects are GCSEs. The structure of these courses and course content has in many cases changed significantly in recent years. As you may be aware, the GCSE grades have changed from the letter grades (A*-G) to numerical grades (9-1, where 9 is the highest). Subjects follow a two-year linear course leading to final, in some subjects tiered, examinations in summer 2023.

Cambridge Nationals and RSL qualifications

Some students prefer an assessment system with fewer written examinations and a more practical approach; we offer a number of courses which can be completed alongside the GCSE subjects offered. These qualifications are awarded grades such as Distinction, Merit and Pass which schools, colleges and employers recognise as being equivalent to GCSE grades.

EBacc

The EBacc is achieved if a student gains a minimum of GCSE grade 5 in English, Maths, at least two Sciences, a Modern Foreign Language and a Humanities subject (Geography or History). In order for students to have the opportunity to meet this standard, you should choose French and at least one from Geography or History when completing your option form.

Frequently Asked Questions

How many options do I study at Key Stage 4?

You will study four option subjects at Key Stage 4.

Can the school guarantee that I will be given my first choice of subjects?

Every attempt will be made to give you your first choice subjects but we ask you to select a range of subjects in order of preference so we can best meet the needs of every student.

What sort of future planning should I 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 courses over Key Stage 4 to keep their future options open.

What support is there to decide which options to take?

Subject staff are available at the Options Evening to discuss option courses, please see the schedule and locations at the back of this booklet.

Students are encouraged to continue to discuss option choices in relation to their future career plans and current level of performance with subject teachers and tutors over the coming weeks.

Can I change my mind?

As soon as the options deadline has passed, work begins on timetabling. Alterations to choices may not be possible from this point onwards. Once a decision has been made and a course has 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 if I cannot do my chosen course?

We hope that the courses offered will be available to all the students who want them. However, 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 are impossible to timetable.

The Options Allocation Process

24th March **Options Form deadline** Please return completed forms to the Exams office.

1. Once all option forms are submitted, these choices are entered into an options programme with details of their ranking 1st choice, 2nd choice etc.
2. The option blocks are then generated to maximise the number of students getting their preferred option choices.
3. Students are then allocated to courses starting with their 1st choice and so on.
4. Where we cannot allocate a subject choice due to it clashing with an earlier choice in the same option block it will then try to fit your 5th or 6th choice subject.

10th June **Letters confirming options issued.**



RSL Certificate in Acting for Performing Arts Practitioners

Key facts:

The *RSL Certificate in Acting for Performing Arts Practitioners* provides a vocationally relevant course for learners who wish to develop their skills, knowledge and understanding of acting within the performing arts industry. It allows for direct progression into the industry and/or progression to a higher level of study. The qualification focuses upon the recognition of achievement through practical skills. As such, anyone selecting the course should be a keen performer or have a genuine desire to develop their skills in acting further. You will be making a commitment which may require extra-curricular rehearsals and/or activities such as theatre trips and workshops.

There are three units.

1. **Performing Arts Knowledge (internally assessed)** – You will study performance genres with a focus on the context, features and practitioners of the genres and undertake a review of a performance. You will utilise your understanding of a specific genre in a short performance piece or demonstration.
2. **Skill Development (internally assessed)** – You will develop your ability to plan and carry out a proactive and structured skill development process in an area relevant to acting, based around your own goals and objectives.
3. **Live Performance (external examination)** – You will apply your skills and contextual understanding to develop work for a live acting performance, allowing you to explore how what you have learnt so far works in practice.

What will I do in lessons?

- Explore a variety of texts through performance and discussion.
- Explore different genres and practitioners through practical workshops.
- Review your existing skills and develop strategies for development and progress as a performer.
- Develop your ability to record and review your own ideas and write about acting, including reviewing productions you have been to see.

What skills will I develop?

- **Acting/Drama specific skills** including interpretation, devising, performing, characterisation and evaluating.
- **Transferrable skills** including interpersonal and collaborative skills, communication and enhanced confidence to present present/perform, independence and self-motivation, research and problem-solving.

The performing arts are recognised by employers to help students develop essential skills for work, whether they pursue a career in the performing arts industry or not. Lawyers, teachers, salespersons, business leaders and politicians all need to be able to “perform” to an audience otherwise they will not be successful. The transferrable skills inherent in the performing arts will be valuable in almost all future studies and careers.

How can I find out more?

For more information you can visit the RSL website or contact Mr R Selby, rselby@axevalley.uat.ac



GCSE Art & Design

Key facts:

GCSE Art and Design is a broad course exploring practical and contextual work through a range of 2D and/or 3D processes, mixed media and photography. Students will produce practical and contextual work associated with the exploration of fine art, graphic design, three-dimensional design, photography and print. Art is a fascinating and rewarding subject that encourages the use of your imagination and creativity, whilst acquiring a range of skills and abilities.

What will I do in lessons?

- You will work on projects exploring and developing skills and technical ability in a range of techniques and processes.
- You will learn to develop artwork with confidence in any given material or medium.
- You will learn to understand a wide variety of artists' work and use it in the development of your own methods, styles and ideas.

What skills will I develop?

- You will develop solid observational drawing skills.
- How to develop ideas through experimenting with media.
- The ability to work confidently, making and following independent decisions.
- How to critically analyse artists and their work.
- The ability to manage your time through effective problem solving.

How can I find out more?

For more information contact your Art Teacher or Mr R Selby, rselby@axevalley.uat.ac



GCSE Computer Science

Key facts:

Computer technology continues to advance rapidly and the way that technology is consumed has also been changing at a fast pace over recent years. The growth in the use of mobile devices and web-related technologies has exploded – as a result, businesses require an ever-increasing number of technologically-aware individuals. This is even more so in the gaming, mobile and web-related industries.

Possible career paths: business analyst, database administrator, games developer, information systems manager, IT consultant, multimedia programmer, search engine optimisation specialist, systems analyst, systems developer, user experience analyst, web designer, web developer, university, apprenticeships and much more.

What will I do in lessons?

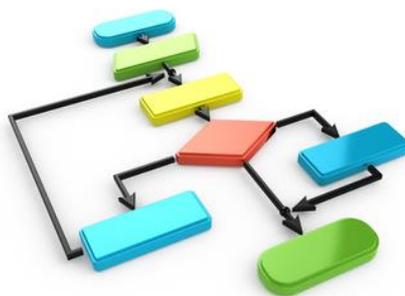
- You will develop your Computer Science knowledge effectively through the skills of listening, reading, researching and writing.
- You will cover the following three unit areas: computer systems, computational thinking and algorithms and programming.
- You will look at different programming techniques and analyse the requirements of a programme and then design, develop and test and evaluate your solution.

What skills will I develop?

- Computational thinking: breaking down a complex problem or system into smaller, more manageable parts, looking for similarities among and within problems, ignoring irrelevant detail and developing a step-by-step solution to the problem, or the rules to follow to solve the problem.
- Independent thinking.
- Resilience.
- Team work.

How can I find out more?

For more information contact your Computing Teacher or Mrs F Mimpriss, fmimpriss@axevalley.uat.ac



Cambridge Nationals in Creative iMedia

Key facts:

The media industry is vast, covering different sectors and providing work for freelance creatives as well as large teams in design houses and multinational companies. But there are common aspects to all digital media products. This qualification will help you to develop knowledge, and understanding relating to different sectors, products and job roles that form the media industry. You will learn how media codes and conventions are applied to create digital media products which engage audiences. You will also learn the purpose of, and reasons for laws that apply to the media industry and what media producers must do to comply with these laws.

The knowledge and skills you develop will help you to progress onto further study in the media industry. This may be other vocational qualifications in Digital Media or the Media and Broadcast Assistant Pathway Apprenticeship. The qualification also helps to develop other transferable skills including creative thinking, digital presentation, planning and problem solving that will be valuable in other life and work situations.

What will I do in lessons?

The course comprises of three elements of study:

- **Creative iMedia in the media industry** (40% of final grade) - This is assessed by examination. In this unit you will learn about the media industry, digital media products, how they are planned, and the media codes which are used to convey meaning, create impact, and engage audiences. Topics include the media industry, factors influencing product design, pre-production planning and distribution considerations
- **Visual identity and digital graphics** (25% of final grade) - This is assessed by completing a set assignment. In this unit you will learn to how to develop visual identities for clients and use the concepts of graphic design to create original digital graphics to engage target audiences. Topics include, developing a visual identity, planning digital graphics for products, and creating a visual identity and digital graphics.
- **Interactive digital media** (35% of final grade) - This is assessed by completing a set assignment. In this unit you will learn how to plan, create, and review interactive digital media products. Topics include, planning interactive digital media, creating interactive digital media, and reviewing interactive digital media

What skills will I develop?

- You will learn to identify key requirements from business scenarios and incorporate them into your work.
- You will learn how to create content to meet specified purposes.
- You will learn how to evaluate media products for example animations, websites, and videos.
- You will learn how to source media components (images etc.), taking account of relevant rules and laws.
- You will learn how to test your products, both whilst you are making them and once completed.
- You will learn how to review your products once they have been completed and suggest improvements that would meet the needs of the target audience.

How can I find out more?

For more information contact Mr K Cumming, kcumming@axevalley.uat.ac



GCSE Design & Technology

Key facts:

The new GCSE specification in design and technology enables students to understand and apply design processes through which they explore, create and evaluate a range of outcomes. Students are encouraged to use creativity and imagination to design and make prototypes that solve real and relevant problems, considering their own and others' needs, wants and values.

This course has a written examination and a non-examination assessment (NEA).

What will I do in lessons?

- Theory and science about materials and manufacturing
- Design activities
- Making activities
- Maths skills linked to design work
- Learn about the history of design

What skills will I develop?

Design and Technology requires students to develop skills and understanding in both designing and making.

When designing, you will need to understand what the client requires and then provide them with a functional prototype which can be tested, so that you and your client can judge how successful it is.

Making involves working with a variety of materials, some of which may be new to you, but others you will have already used before starting this course. Only by gaining experience working with materials first-hand can you start to understand their properties, and the ways in which those materials can be used for a variety of purposes.

How can I find out more?

For more information contact your Design Technology Teacher or Mrs F Mimpriss, fmimpriss@axevalley.uat.ac



GCSE Food Preparation & Nutrition

Key facts:

The main topics you will study are: food nutrition and health, nutritional needs and health, food science, food safety, food choice, food provenance and food preparation skills. To do well you need to be interested in food, and food science, enjoy cooking and be organised to bring your ingredients for practical lessons.

The course is made up of 50% Non-Examined Assessment (Task 1 which includes a scientific investigation and Task 2 which includes demonstration of practical skills and the planning, preparation, cooking and presenting of 3 dishes).

The remaining 50% is a written examination at the end of Year 11.

What will I do in lessons?

- Study the nutrition and science of food
- Practical food investigations to support the study of the food science and nutrition. This helps you to understand and to practice for your first Non-Examined Assessment.
- Practical cookery: Sometimes you will be given a recipe so that you learn a specific skill, other times you will be able to choose your own recipe.
- Theory work – researching, examination practice and learning key facts.
- Individual and group work.

What skills will I develop?

- Understanding the science of food
- Medium and high-level practical cookery skills.
- Problem solving.
- Organisation and multi-tasking.
- An understanding of how ingredients work in recipes.
- An understanding of how food affects health.
- An understanding of food sustainability and food provenance.

How can I find out more?

For more information contact your Food Technology Teacher or Mrs F Mimpriss, fmimpriss@axevalley.uat.ac



GCSE French

Key facts:

You will engage in different activities to enable you to develop your ability to communicate effectively in French and to develop an awareness and understanding of France and its language. Foreign languages are increasingly essential for a wide variety of careers and they are also important for personal and social development and enjoyment. 93% of the world's population does not speak English as their native language; come and join us on this exciting journey of discovery.

What will I do in lessons?

- You will learn to communicate effectively through the skills of listening, reading, speaking and writing.
- You will cover the following five topic areas: home and local area, health and sport, leisure and entertainment, travel and the wider world, and education and work.
- You will do some translations both from French to English and English to French.
- You will also look at literary texts to further develop your reading skills.

What skills will I develop?

- You will practise the language by speaking and writing.
- You will be exposed to the language for listening and reading comprehension.
- You will develop dictionary skills and use ICT creatively to support the development of your language skills.
- You will complete project work including songs and research into foreign countries.

How can I find out more?

For more information contact your Language Teacher or Mrs N Flynn, nflynn@axevalley.uat.ac



GCSE Geography

Key facts:

Geography helps you to make sense of the world around you. It is hands-on, it is relevant and it is fun. The course is a good mix of topics such as urban issues, world development, extreme environments, rivers and hazards. The course will give you the chance to get to grips with some of the big questions which affect our world and understand the social, economic and physical forces and processes which shape and change our planet.

What will I do in lessons?

- There are so many ways of learning in geography.
- We use maps, photographs, videos and a range of graphs to find out about places.
- We use evidence to examine the issues places have and make decisions about the future of places.
- It can be practical with opportunities to learn new skills such as modern computer based mapping (called GIS)
- Fieldwork is an important element, you will get the chance to carry out 2 days of fieldwork and spend time in lessons preparing for this fieldwork and afterwards examining the results we collect and drawing conclusions based on them.

What skills will I develop?

- Literacy skills through report writing and written work.
- Numeracy skills by interpreting data and constructing graphs.
- Computing skills through the use of Geographic Information Systems.
- Decision-making skills by examining issues and viewpoints and recommending actions.

How can I find out more?

For more information contact your Geography Teacher or Mr D Perks, dperks@axevalley.uat.ac



Cambridge Nationals in Health & Social Care

Key facts:

Careers within the health and social care sector are wide-reaching. There are also many job opportunities available to those who enjoy working with people and who have a caring nature. You will identify the essential skills and qualities required to be an excellent health and social care worker and will engage in different activities that will develop your own health and social care skills. This subject will help to develop your writing and communication which will be essential for future employment.

What will I do in lessons?

Throughout the health and social care course you will study three out of the following four topics. Both mandatory topics will be studied. Only one of the optional units will be studied; this will be decided based upon the strengths of the class:

- Principles of care in health and social care settings (Mandatory unit, assessed by exam, 40% of final grade)
- Supporting individuals through life events (Mandatory unit, assessed by coursework, 30% of final grade)
- Creative and therapeutic activities (Optional unit, assessed by coursework, 30% of final grade)
- Health promotion campaigns (Optional unit, assessed by coursework, 30% of final grade)

What skills will I develop?

- Literacy skills, including clear written communication (which is highly valued by employers and colleges), will be developed as much of this course focuses on your ability to structure large pieces of clear and coherent coursework.
- Knowledge and understanding of fairness and the importance of treating people with respect and care.
- Be able to consider the importance of verbal and non-verbal types of communication and how to apply these in an appropriate health, social and early years settings.
- Knowledge of human growth and development through the life stages.
- Teamwork skills will be developed by taking part in whole class and small group discussions and presenting ideas to the rest of the class.

How can I find out more?

For more information contact Mr J Ward, jward@axevalley.uat.ac



GCSE History

Key facts:

GCSE History allows students to explore a broad and diverse study of the history of Britain and the wider world. Studying History will give learners skills that will support progression to further study of History and a wide range of other subjects. Students will come to understand their place in the world and gain a greater understanding of how modern Britain was shaped by past events.

What will I do in lessons?

Students will study the following topics as part of their GCSE:

- Anglo-Saxon and Norman England, c1060-88
- Medicine in Britain, c1250–present (including The British sector of the Western Front, 1914–18: injuries, treatment, and the trenches)
- The American West, c1835-1895
- Weimar and Nazi Germany, 1918-1939

The History department offers a variety of engaging lessons to interest and challenge students. The GCSE is entirely exam based (there is no coursework) and therefore revision and knowledge recall skills are prioritised throughout the course. GCSE History is a well-respected but challenging course: keen readers will be placed at an advantage due to the high literacy demands of the course. As well as classroom studies, students are offered overseas enrichment opportunities to allow students to explore history beyond the confines of the GCSE; recent trips have included Berlin and the battlefields of the Western Front in Northern France and Belgium.

What skills will I develop?

- **Communication & persuasion**- We love to argue! Students will develop their writing and oracy skills by creating arguments and defending them against alternative points of view.
- **Literacy skills** – Good historians are good readers! Students will read original historical sources that are up to 1000 years old and analyse contemporary interpretations of the past from modern historians. Learning to read complex sources and write essays about them increases students' literacy skills hugely.
- **Initiative** – Whether it is conducting additional reading and research, giving presentations or acting in dramas, students will learn to take responsibility for their own learning.
- **Problem-solving** – Every time students are asked for their opinion (and they will be asked frequently!) they will need to use problem-solving skills. Students will need to make sense of the evidence and reach conclusions based on it.
- **Teamwork** – Students will get plenty of opportunities to work as part of a team in History. Students are expected to listen to peers, contribute to group tasks and participate in presentations.
- **Leadership** – You will learn to evaluate leadership skills (or lack of them) in a variety of key historical figures.

How can I find out more?

For more information contact your History Teacher or Mr M Irvine, mirvine@axevalley.uat.ac



GCSE Music

Key facts:

Do you have a passion for Music? Would you like to learn more about it? To rehearse and refine pieces of your own choice? To perform and write music? To analyse and talk about lots of different types of music? To work in ensembles and a recording studio to produce your own music? If so, this is an excellent option choice for you. To take this option, you must be prepared to play and perform using an instrument - voice included. Some musical and chord notation experience is advised for the course.

What will I do in lessons?

- Lots of rehearsing on instruments or singing to develop performing skills and create and play music with others.
- Lots of creative composing in a variety of different styles and genres.
- Have the opportunity to use music technology.
- Study the history and development of music from the 1600s to the present day.
- Learn to read music and identify musical concepts and features when listening to all kinds of music.

Work completed for the GCSE

- Integrated Portfolio 30% (internally assessed). Performance on your chosen instrument and a composition to a brief set by you.
- Practical Component 30% (internally assessed). Ensemble performance and composition to a brief set by the exam board on any instrument and any genre.
- Listening Exam 40% (externally assessed). Listening, appraisal and notation skills assessed in an examination at the end of the course.

What skills will I develop?

- Ability to perform on an instrument or voice as a soloist.
- Ability to perform in a group.
- Ability to compose music in variety of styles and genres.
- An understanding of music theory.
- Ability to analyse music through listening skills.

How can I find out more?

For more information contact Mrs J Moran, jmoran@axevalley.uat.ac or Mr R Selby, rselby@axevalley.uat.ac



GCSE Photography

Key facts:

GCSE Photography is an Arts course that will enable you to create photographic images in digital and non - traditional media. Starting points will be investigated and developed and work will be refined until a meaningful visual response can be made. Students will produce practical and contextual work in response to contextual sources and the world around them. In an increasingly visual world, the photograph is everywhere. This course will allow you to present your view of the world around you and the necessary rigour to achieve creative independence.

What will I do in lessons?

- You will work on projects exploring and developing skills and technical ability in a range of techniques and processes.
- You will learn to respond creatively using a variety of media and techniques.
- You will learn to understand a wide variety of artists' work and use it in the development of your own methods, styles and ideas.

What skills will I develop?

- You will learn how to use a camera.
- How to develop ideas through experimenting with media.
- The ability to work confidently, making and following independent decisions.
- How to critically analyse Photographers and their work.
- The ability to manage your time through effective problem solving.
- To clearly present a visual journey.

How can I find out more?

For more information contact your Art Teacher or Mr R Selby, rselby@axevalley.uat.ac



GCSE Religious Studies

Key facts:

GCSE Religious Studies offers an academic qualification recognised by universities and employers. For those interested in working with people, especially in Law, Journalism, Medicine, Teaching and Personnel Management, Religious Studies offers an opportunity to explore the major beliefs and social/moral problems of our time. Important, and sometimes quite sensitive issues will be addressed providing you with an opportunity for personal growth and development. Many employers value the flexibility of thought and the capacity of marshalling arguments in a coherent and compelling manner which the study of RS nurtures. The specification is designed to be accessible to students of any religious tradition, or none.

What will I do in lessons?

GCSE Religious Studies encourages you to be inspired, moved and changed by following a broad, satisfying and worthwhile course of study that challenges you and equips you to lead constructive lives in the modern world.

The course takes an issues-based approach to the study of religious, philosophical and ethical studies in the modern world. It will also enable you to gain knowledge and understanding of two different religions.

Each lesson has clear learning objectives linked to the AQA specification which will be achieved through a variety of teaching methods that cater for different learning styles, promote your independence and build upon the skills required to be successful in the exam and beyond. Your progress will be closely tracked and monitored through regular feedback, both verbal and written, target setting and exam preparation activities. Additional support will be offered throughout the course with drop in clubs and revision sessions in the run up to the exams alongside intervention strategies that will provide you with the best possible chance of securing your target grade.

What skills will I develop?

- deepen your understanding of the relationship between people;
- become informed about common and divergent views within traditions in the way beliefs and teachings are understood and expressed;
- demonstrate knowledge and understanding of the fact that the religious traditions of Great Britain are, in the main, Christian;
- understand that religious traditions in Great Britain are diverse and include the following religions: Christianity, Buddhism, Hinduism, Islam, Judaism and Sikhism, as well as non-religious beliefs, such as atheism and Humanism.

How can I find out more?

For more information contact teacher Mr S Pillay, spillay@axevalley.uat.ac

GCSE Statistics

Key facts:

Statistics is about making decisions when there is uncertainty. Perhaps one of the most versatile areas of maths, it gives students the skills to collect, analyse, interpret and present data. It complements subjects such as GCSE Biology, Psychology, Geography, Business and Economics, and opens the door to a variety of careers – from weather forecasting to the biological sciences.

What will I do in lessons?

Students will be introduced to the skills of statistical enquiry. They will practise the underpinning statistical calculations and the interpretation of results using real world data and authentic contexts. They will learn skills that will support progression in a range of subjects and develop an awareness of statistics beyond the classroom.

What skills will I develop?

The aims and objectives of this qualification are to enable students to develop statistical fluency and understanding through:

- the use of statistical techniques in a variety of authentic investigations, using real-world data in contexts such as, but not limited to, populations, climate, sales etc.
- identifying trends through carrying out appropriate calculations and data visualisation techniques
- the application of statistical techniques across the curriculum, in subjects such as the sciences, social sciences, computing, geography, business and economics, and outside the classroom in the world in general
- critically evaluating data, calculations and evaluations that would be commonly encountered in their studies and in everyday life
- understanding how technology has enabled the collection, visualisation, and analysis of large quantities of data to inform decision-making processes in public, commercial and academic sectors, including how technology can be used to generate diagrams and visualisations to represent data
- understand ways that data can be organised, processed, and presented, including statistical measures to compare data, understanding the advantages of using technology to automate processing
- applying appropriate mathematical and statistical formulae and building on prior knowledge.

How can I find out more?

For more information contact your Maths Teacher or Mr I Leach, ileach@axevalley.uat.ac



Cambridge Nationals in Sports Science

Key facts:

This is a vocational qualification that is engaging, practical and inspiring. This course provides students a broad knowledge and understanding of different aspects of sports science including sports injuries, applying principles of training, sports and nutrition and how technology is used in sport. The course uses a mixture of practical and theoretical aspects to deliver the course content.

What will I do in lessons?

Students will study three units:

1. Reducing the risk of sports injuries and dealing with common medical conditions

Participating in sport and physical activity places the body under stress. Knowing how to reduce the risk of injury, and how to treat injuries and medical conditions in a sport setting, are vital skills within sport and the leisure industry, regardless of your role. Students will learn how to prepare participants to take part in physical activity in a way which minimises the risk of injuries occurring; prepare them to be able to react to common injuries that can occur during sport and physical activity and to recognise the symptoms of some common medical conditions.

2. Applying principles of training: fitness and how it affects skill performance

Students will learn how to conduct a range of fitness tests, what they test and their advantages and disadvantages. They will also learn how to design, plan and evaluate a fitness training programme. This will give them the background knowledge they need to be able to plan and deliver appropriate fitness tests, some of which will be adapted to suit the skills of the sporting activity. Students will then interpret the data collected from fitness tests and learn how best to feed this back so that participants can go on to make informed decisions about their fitness training.

3. The body's response to physical activity and how technology informs this.

It is recognised that physical activity is essential in maintaining good health. Many careers in the sport, leisure and health industry require employees to have an understanding of how the body changes and responds to physical activity. With this knowledge it is possible to improve body systems to optimise sports performance and promote healthier lifestyles. Students will learn to understand how both the cardio-respiratory and musculoskeletal systems provide you with the energy and movements needed to keep you exercising and in turn how exercise helps develop both of these systems.

What skills will I develop?

- Leadership
- Teamwork
- Communication
- Report Writing
- Training safely and effectively

How can I find out more?

For more information contact your PE Teacher or Mr D Owen, dowen@axevalley.uat.ac

