



GCSE CHOICES

2012

INTRODUCTION

In the Spring Term you will be making your choices for GCSE. At this stage, the curriculum will still be broad, so that you can continue to extend your knowledge and skills in a central core of subjects while beginning to make choices in other areas, based on your own abilities and preferences. This curriculum will ensure that as many opportunities as possible remain open to you, both for further study, at school and in higher education, and for your future career.

The GCSE curriculum at JAGS combines a core of compulsory subjects - English Language and English Literature, Mathematics, Biology, Chemistry and Physics - with choices taken from 3 different areas: Modern Languages, Humanities and Creative/Practical subjects. You will also take courses in PSHCE and PE. Individual Music lessons will, as far as possible, be timetabled in Rec and lunchtimes. You will choose a total of 10 or 11 GCSE subjects (as the GCSE science curriculum leads to 3 separate GCSEs), and it is important that your workload is manageable to allow you to continue to pursue other interests.

It is important that you keep as many options open as possible, and you should bear the A Level curriculum in mind, which encourages breadth and from which you will be choosing 4 or 5 subjects. You should not be too quick to see yourself as a 'scientist' or a 'humanities' student, as combinations of these subjects will be encouraged right up to A Level, and universities will be looking for students with breadth as well as depth in their choice of subjects. In making your choices listen to your parents, teachers and friends, but remember: *THE CHOICE AND THE WORK ARE YOURS.*

MAKING YOUR CHOICE

Your choice should be based on:

- ◆ What is available;
- ◆ What you enjoy;
- ◆ What you are good at; and,
- ◆ What you might need for future study and careers.

You might have difficulty deciding which subjects to choose and be reluctant to opt for one course at the expense of another. It is therefore important to check which can be studied in the Sixth Form without a GCSE background and which cannot. Where the GCSE is a requirement for A Level, a pass at grade A is usually expected. There is often the chance to pick up subjects at a later stage during further and higher education.

First, look into the content of the course. A summary of each course can be found in this booklet. Make sure that it matches up with your abilities and interests and, if necessary, talk to girls in Years 10 and 11.

Your interest must be in the subject itself, not the teacher. A poor reason for choosing a subject would be just because you like your teacher, since it is possible that a different member of staff would teach you next year. A more positive indicator would be that you are successful in the subject, can cope competently with its demands and enjoy the lessons. Unfortunately we are not always good at the things we like and sometimes do not like the things at which we are good.

Some careers need certain subjects. If you have a particular career in mind you can find out what is required by using a computer database, such as KUDOS, and the careers sections in the library. For more information or advice you should consult your form teacher, however, by the end of Year 11 you might have very different aspirations. Fortunately the core subjects will help you to keep your options open.

Controlled assessment has replaced coursework in most subjects. This usually involves work being completed in class under the strict supervision of the teacher. Individual subject teachers can explain in more detail the nature of controlled assessment in their subject.

Recommendations could be important. Your parents will have views and there are certainly advantages in listening to their advice. Your teachers will know your strengths and weaknesses, how you cope under pressure, how well you are likely to perform. Your friends, too, may try to persuade you to follow their course.

Remember: it has to be your choice, your work, your results!

Where you have strengths or particular talents - be they practical, numerical, creative, expressed orally or in writing - you are likely to have greater confidence in your own ability to succeed and those subjects might well lead on to interests at a higher level.

So listen to advice, think about it seriously and then choose your own GCSE course.

Core subjects

all girls **MUST** study:

English Language and English Literature
 Mathematics
 Biology, Chemistry and Physics

Option subjects:

all girls must study 1 subject from each of groups 1-3

1. Modern Foreign Languages

French
 German
 Italian
 Japanese
 Russian
 Spanish

2. Humanities

Classical Civilisation
 Geography
 History
 Religious Studies

3. Creative/Practical /Aesthetic

Art
 Design & Technology
 Drama & Theatre Arts
 Information Technology
 Music
 Physical Education

4. Classical Languages

Greek (ancient)
 Latin

N.B. If you have already completed a GCSE in a Modern Foreign Language you may wish to choose a subject from group 1 but you may choose another option from a different block instead.

Additional subjects:

all girls may study one or two additional subjects from the 4 groups above, to make a total of 10 or 11 GCSE subjects; i.e. choosing one additional option subject will make a total of 10 GCSE subjects.

The following pages describing the GCSE courses have been drawn up by Heads of Departments to help you decide which subjects are best suited to your abilities and interests.

ART & DESIGN

The course

Art and Design aims to encourage the development of your personal interests and ideas through the use of a very varied and extensive range of media:

Painting	All media
Drawing	All media
Textiles	Batik, tapestry, canvas work, appliqué, machine embroidery, 3D textiles
Printing	Lino, relief printing, dry-point and mono print
Sculpture	Carving and construction
Photography	Digital
Collage	Various media
Mixed media	
ICT	As a tool for expressing and developing your ideas and as an end in its own right

The GCSE Art and Design course consists of one examination and a portfolio. The course is designed to be a general course and enables pupils to explore a range of 2 and 3 dimensional approaches to their studies.

The themes for the portfolio are wide-ranging and varied and allow for personal interpretation. Each member of staff teaches their own specialisation to every girl on a rotating system whereby they are taught by two teachers each week. The course encourages self motivation, sensitivity and visual awareness. It will improve your powers of observation and creativity, practical skills, personal expression, appreciation and understanding of art both critically and culturally. Your ability to analyse, select and abstract will progress and develop with studio investigations and working visits to sites of interest, museums and galleries.

The Department aims to help improve your ability in making art, by stimulating your curiosity in the surrounding visual environment. The course is engaging and exciting, requiring you to be receptive to new ideas, willing to explore and work ambitiously. Through the course you should gain new insight and enjoy the process of visual discoveries. Staff in the Art Department are teachers and artists and they are very happy to answer any questions you may have about the GCSE course.

Examining Board: AQA Art and Design 4201

Controlled Assessment: Portfolio completed in class and at home during the first four terms (60%).

Examinations: Begin February and are completed by Easter in Year 11(40%).

A Level Access: A Level Art cannot be studied without GCSE Art.

CLASSICAL CIVILISATION

The course and its content

This is an ideal course for anyone with a broad interest in the ancient world, covering as it does both Greek and Roman, literary and civilisation topics. No prior knowledge of any topic is required. No language work is involved; all the literature is studied in translation.

If you enjoy stories from mythology or are interested in how Romans and Greeks lived (perhaps you have visited sites or watch TV programmes about this?) you would enjoy Classical Civilisation. Equally, this course can be used to give a broader context to the study of an ancient language; there is no restriction on taking Classical Civilisation at GCSE in addition to Latin or Greek.

You will study four topics in total, from a mixture of literature and civilisation. Typically these might include:

Homer *Odyssey*

Greek Tragedy and Drama Festivals

Virgil *Aeneid*

A research project based on Ovid *Metamorphoses*

Classical Civilisation involves an enormous variety of sources, both literary and archaeological. An important aspect of the subject is the opportunity to examine these in museums, exhibitions and archaeological sites. We are lucky to have the help of the British Museum Education Service, who are always willing to arrange special sessions for us. There will also be the opportunity to go to talks about the ancient world and to performances of Greek plays: a Festival of Greek Drama is an annual event in London, and there are performances of Greek plays in ancient Greek (with English subtitles) in London, Oxford and Cambridge.

Examining Board: AQA (see www.aqa.org.uk for full details)

Controlled Assessment: Unit 4: Greece and Rome: An Evaluative Study (40204)
Controlled assessment: 3-4 hours (25%).

Examinations: In addition to the controlled assessment, the subject is examined in three written papers, taken at the end of the course:

Unit 1: Greece and Rome: Stories and Histories (40201) 1 hour (25%)

Unit 2: Greece and Rome: Drama and Life (40202) 1 hour (25%)

Unit 3: Greece and Rome: Conflict and Carnage (40203) 1 hour (25%).

A Level Access: A Level Classical Civilisation may be studied without GCSE Classical Civilisation.

DESIGN AND TECHNOLOGY

If you enjoy problem solving and making things, you will find this subject interesting. Design is a constantly evolving process requiring a broad range of skills and knowledge. The course is structured to allow you to solve design problems logically and systematically. We will teach you the skills and knowledge needed to develop products that are creative, innovative and useful.

DT Resistant Materials will give you the opportunity to:

- design and make creatively conceived and well-made commercially viable products by generating, developing, planning and communicating your ideas
- make quality products by working safely with tools, equipment, components, materials
- apply systems and control, CAD/CAM, digital media and new technologies where appropriate

You will also:

- develop as an effective and independent learner
- make considered decisions when designing
- design and make sustainable long lasting, good quality products
- combine skills and knowledge to solve real life problems
- explore ways in which aesthetic, technical, economic, environmental, ethical and social issues interact when designing and making
- analyse existing products and produce practical solutions to needs, wants and opportunities
- develop your decision-making skills through working on your own and in teams
- understand that designing and making reflect and influence cultures and societies
- develop skills of creativity and critical analysis through making links between the principles of good design, existing solutions and technological knowledge

The course is taught through a series of practical projects which include core teaching topics. Past projects include short problem solving exercises, making salt and pepper pots, drawing exercises, CAD/CAM practice and making a fully working radio using a simple to build electronic circuit.

The controlled assessment project is set within a timed period and set to a theme by the examination board; we give you guidance as to what might be suitable projects. In the past pupils have designed and made: lights for bunk beds, storage for cramped rooms, picnic equipment, aids for the disabled.

There is always something that needs to be improved or a new market to design for.

Examining Board: AQA

Controlled Assessment: This is set to a theme given by the examining board and completed under supervision. This work is internally assessed and externally moderated (60%).

Examinations: One written paper of two hours. All questions are compulsory and the answers are marked externally (40%).

A Level Access: A Level DT may be taken without GCSE. You would be expected to take an aptitude test and prove yourself safe and competent in the workshops. Acceptance onto this course would be at the Head of Department's discretion.

DRAMA

Drama is an exciting and challenging subject. This highly practical qualification will help you develop an insight into and an understanding of stage craft and also give you the chance to develop key life skills such as teamwork and public speaking. There will be plenty of opportunities to work as performers, designers and directors throughout the course. Lessons focus on workshops that build on existing drama techniques, styles and conventions and introduce and experiment with all the technical aspects of theatre practice. We take you to the theatre so that you learn to analyse critically what you see and to inspire and encourage you to use some of these ideas in your own practical work.

Six Areas of Study

The Six Areas of Study are the foundations of the course and will underpin all the work undertaken.

1. Character, context and plot
2. Structure
3. Audience and Performance Space
4. Improvisation
5. Genre, Performance Style, and Convention
6. The Semiotics of Drama and Theatre

The OCR qualification consists of three units. Each Unit has a written component which consists of a working record which will contain notes, diagrams, sketches, continuous writing, scenarios, photographs, and designs as appropriate.

Unit 1

From Page to Stage 30%

Performance of a published text.

Unit 2

Drama in the making 30%

Focus on stimulus and devising - how you create a piece of theatre.

Unit 3

From Concept to Creation 40%

Practical Performance Examination based on a stimulus and script extract provided by OCR.

A Level Access: A Level Drama and Theatre Studies may be studied without GCSE Drama.

ENGLISH

The course

Girls are prepared for both English Language and English Literature, which are awarded as separate certificates. However, both courses are taught simultaneously. Two folders of coursework are presented.

Cambridge IGCSE English First Language (0500)

Examination: Reading Passages (2 hours) 50% of total marks.

Question 1 Imaginative/Recreative Comprehension

Question 2 Language Analysis

Question 3 Summary

Coursework: 50% of total marks.

- Assignment 1: informative, analytical and/or argumentative.
- Assignment 2: imaginative, descriptive and/or narrative.
- Assignment 3: a response to a text or texts which contain facts, opinions and arguments.

The final folder of work submitted to the examiner is chosen from a range of pieces completed during the course.

Cambridge IGCSE Literature (English) (0486)

Examination: 3 questions (2 hours 15 minutes) 75% of total marks

This paper has three sections: Drama, Prose and Poetry. You must answer one question from each section. All questions carry equal marks. You will take clean copies of the set texts in the examination, but they must not contain personal annotations, highlighting or underlining.

Coursework: 25% of total marks.

Pieces will be written throughout the course; the final folder of submitted work will contain the two best pieces. Assignments should each be on a different text and around 1000 to 1200 words.

- You do not have to produce assignments under timed examination-type conditions.
- Assignments should show that you have studied the whole text.

The English Department is committed to teaching a wide range of texts. As well as meeting the requirements of the syllabus, we also teach Shakespeare, pre-C20th prose and poetry.

Examining Board: Cambridge IGCSE

A Level Access: Literature in English Pre-U cannot be studied without GCSE English.

FRENCH

French is one of the world's major international languages: it is spoken by over 200 million people in 43 countries, on five continents. Knowing French increases your chances of communicating in a non-English-speaking country and the prestige of French art, music, dance, literature, fashion, cuisine, and cinema makes French a culturally important foreign language.

The course

If you enjoy communicating with other people, finding out how language works and learning about different countries and cultures, studying GCSE French is an excellent choice for you.

Having studied French at Key Stage 3, you are well prepared to do a French GCSE course. You already know a lot of the vocabulary and grammar you will need for GCSE. You know how to talk about yourself, your family and friends, your hobbies, where you live, school, holidays, food and drink. You will build on these topics during your GCSE course, as well as moving on to new topics such as fashion, the internet, media etc.

The course aims to enable you to use your French with confidence in a large number of contexts and to appreciate modern French society and culture. You will be able to share your interests, ideas and opinions with other people who speak French.

Contemporary France and French-speaking countries are brought into the classroom with up-to-date material from magazines and newspapers as well as songs and films, both documentary and artistic.

Of course you will learn to understand a lot more French when you hear it or read it and be able to say and write a lot more in French but there are many other reasons for taking a French GCSE course. Language training develops skills which are useful in a wide range of future careers, such as the ability to communicate clearly, being confident about speaking in public, using problem-solving strategies etc.

Finally, you will add an international dimension to your choice of GCSE subjects, which is something many future employers and higher education providers look for.

Examining Board: OCR

Examinations: **Listening (20%):** assessed by examination at the end of Year 11
Reading (20%): assessed by examination at the end of Year 11
Writing (30%): controlled assessment, completed in Year 11
Speaking (30%): controlled assessment, completed in Year 11.

(There is additional preparation for the oral test in small groups in Year 11.)

All girls are entered for the Higher Tier examination.

A Level Access: A Level French cannot be studied without GCSE French.

GEOGRAPHY

The course

If you have enjoyed your Geography lessons during Years 7-9, you should find Geography an interesting GCSE option. Studying Geography at GCSE will help you to understand some of the key issues facing society today, such as 'Why are some countries engaged in water wars?', 'How do we provide housing for ever growing populations?', 'How can we protect our coastlines?', 'What are the consequences of migration within the EU?' and 'How are large organisations being sustainable?' You will also learn about core aspects of physical and human geography as well as developing your fieldwork skills on several enjoyable trips.

Content

There are four units to the course, each accounting for 25% of your GCSE:

Unit 1: Geographic Skills and Challenges for the Planet

This unit covers essential geographical skills. You will develop your understanding of these skills, such as map skills, graphical skills, ICT & GIS and expertise in how to apply them to geographical investigations. This unit also covers the major challenges that our planet is currently facing: climate change and sustainability.

Unit 2: The Natural Environment

This unit covers the physical geography aspects of the natural world and the issues related to the environment. You will study A Watery World and Coastal Landscapes.

Unit 3: The Human Environment

This unit covers the human geography aspects of the human world and the issues related to the people living on our planet. You will study Settlement Change and A Moving World (migration).

Unit 4: Controlled Assessment

You will work on your controlled assessment in Year 11. As part of this you will develop your practical fieldwork & observation skills, team skills, graphical & ICT skills, as well as written description, analysis and evaluative skills. All girls will address the same Aim, which will either be linked to the Coasts topic or the Environment.

Fieldwork during the course:

London's Docklands (as part of the Settlement Change topic), Hastings (as part of the Coastal Landscapes topic), and Local Fieldwork (for example to examine environmental quality in South East London). There are also opportunities to attend topical lectures at the Royal Geographical Society in London.

In conclusion, the subject of Geography is a highly relevant subject in today's World. It offers a variety of important skills useful in many careers.

Examining Board:	Edexcel A
Controlled Assessment:	Completed in Year 11 (25%).
Examinations:	Three one hour papers, each accounting for 25%.
A Level Access:	A Level Geography may be studied without GCSE Geography.

GERMAN

The course

More people speak German as their native language than any other language in Europe. Learning German can connect you to 120 million native speakers around the globe including such diverse countries as Argentina, Namibia, Turkey and Romania amongst others. Many people also learn German as a second language, particularly in Central Europe. In fact it is the third most popular foreign language taught worldwide and the second most popular in Europe after English!

IGSCE German is an enjoyable way to improve on your skills in speaking, reading, understanding and writing the language. The emphasis throughout is on effective communication and every girl will have the opportunity to practise her German on the Key Stage 4 exchange trip.

The examination topics are:

- Area A** **Everyday Activities** (Home Life/School/Food/Health)
- Area B** **Personal and Social Life** (Family/Home/Leisure/Festivals/Holidays)
- Area C** **The World Around Us** (Home Town/Local Area/Natural environment/Places and customs/Travel and transport)
- Area D** **The World of Work** (Continuing education/Careers and employment/Language and communication)
- Area E** **The International World** (Tourism/Life in other countries/World events and issues)

The course enables you to use your German with confidence in a large number of contexts and to find out more about contemporary German society and culture. The language is brought to life in the classroom by using a great variety of resources and media, such as magazines, music videos, films and internet sites. Studying a modern foreign language adds an exciting international dimension to your choice of subjects and you will learn skills which are useful in a wide range of future careers. You will also create greater opportunities for yourself to work for companies with international links or to even work abroad!

Examining Board: Cambridge IGCSE

Examinations: **Listening (25%):** 45 minute paper at the end of Year 11
Reading and Directed Writing (25%): 90 minute paper at the end of Year 11
Speaking (25%): 45 minute paper at the end of Year 11
Continuous Writing (25%): 75 minute paper at the end of Year 11
(There is additional preparation for the oral test in small groups in Year 11.)
All girls are entered for the Higher Tier examination.

A Level Access: A Level German cannot be studied without IGCSE German.

CLASSICAL GREEK

The course and its content

The language, literature, mythology, philosophy, art and history of the ancient Greeks have had an immense influence on our own civilisation. Learning Greek gives you a chance to find out about all these aspects of the ancient world through the language of the Greeks themselves. If you are enjoying studying Latin and have a good understanding of how the language works, then you will welcome the challenges of Greek.

You may take Greek with Latin or Classical Civilisation if you wish. If you are considering reading Classics at Oxford or Cambridge, although prior knowledge of ancient Greek is not required, it is a considerable advantage. Few schools offer this subject, so this is a valuable opportunity for anyone interested in the ancient world.

You will develop your knowledge of the language through a course book that has been specially designed for students of your age, enabling you to make rapid progress through the basics of the language while gaining an insight into the life and culture of ancient Greece.

From this we progress to the study of 'real' Greek literature. You will read extracts from *Rhesus and Helen*, a play by the great tragedian Euripides, as well as selections from the writings of Herodotus, the 'Father of History'. As in Latin and Classical Civilisation, you will have the opportunity to extend your understanding of the subject by studying artefacts in the British Museum and other national collections. You will also go to talks about ancient Greece and to performances of Greek plays: a Festival of Greek Drama is an annual event in London, and there are performances of Greek plays in ancient Greek (with English subtitles) in London, Oxford and Cambridge.

Examining Board: OCR (see www.ocr.org.uk for full details)

Controlled Assessment: There is no controlled assessment or coursework for this subject.

Examinations: The subject is examined in written papers, taken at the end of the course.

Unit B401 Language (1 hour) = 25% of total marks: tests your understanding of unseen Greek through translation from Greek and comprehension questions: the passages will recount a story or stories drawn from mythology or Greek domestic life.

Unit B402 Language (1 hour) = 25% of total marks: tests your understanding of unseen Greek through translation from Greek and comprehension questions: the passages will recount a story or stories drawn from history.

Unit B403 Prose Literature (1 hour) = 25% of total marks: tests your knowledge, appreciation and understanding of one of two Greek prescribed prose texts.

Unit B404 Verse Literature (1 hour) = 25% of total marks: tests your knowledge, appreciation and understanding of one of two Greek prescribed verse texts.

A Level Access: A Level Greek cannot be studied without GCSE Greek.

HISTORY

The course

As well as providing you with a backdrop to the world we live in, the study of history at GCSE develops essential skills, such as the ability to analyse and evaluate evidence and to understand abstract concepts. The capacity for reasoned argument and balanced judgement and the opportunity to present your ideas fluently and coherently are vital outside the discipline of history as well as being a very useful basis for humanities subjects at A Level.

We study Modern World History because this gives you the opportunity to study Twentieth Century History in both outline and depth, thus giving you an insight into and an understanding of the contemporary world.

The course consists of:

One Outline Study: The Cold War and Superpower Relations 1945-1991.

Three Depth Studies:

- 1) Russia: Tsardom to Communism
- 2) Hitler's Germany 1929-1939
- 3) USA and Vietnam 1964-1975.

Examining Board: AQA

Controlled Assessment: Historical Enquiry will be on an aspect of British History, probably either Britain in an Age of Total War or The Changing Role and Status of Women in the 20th Century.

The controlled assessment counts for 25% of the total marks awarded at GCSE.

Examinations: The depth and outline studies are examined via two examination papers that total 75% of the marks.

A Level Access: A Level History may be studied without GCSE History.

INFORMATION AND COMMUNICATION TECHNOLOGY

Introduction

GCSE level ICT is the first opportunity to study computers as a separate subject, rather than as a part of Technology.

Information and Communication Technology (ICT) looks at computers, how they work and how they can be used effectively, but it is *much* more than that. We discuss all aspects of modern technology, including mobile telephones and social networking, the effects on society good and bad, and the future of technology.

We want to give you skills and confidence with the many kinds of computer program you might come across at school or university or in employment, to help you understand how computers can be used effectively and where they cannot be used, how ICT affects jobs, the use of the Internet and the Web, how programs are constructed and tested, how projects are planned and so on. The aim is to encourage you to think creatively but also logically.

Requirements

This course is open to anyone wanting a more thorough knowledge of the subject. You do not need to have done any ICT before. You just need to be interested in the subject and want to know more about how computers work and how they can be used effectively. You do not have to have a computer at home. You will have all the school facilities available for your use, including a personal netbook computer.

The contents of the course

The course involves mostly **practical**, hands-on work using software such as desktop publishing and word processing, spreadsheets, presentation software, databases, graphics, video editing, Web design, animation, CAD, computer control and robotics, expert systems, games, voice recognition and much more. If you have used some of these programs before, it is an opportunity to look at some of the more advanced features. We look for similarities between programs, what makes a good (or bad) program design and how computer software can work together to produce, for example, an illustrated booklet about a famous person.

The **theoretical** part looks at how computers work, communications, hardware, networks, techniques for solving problems and designing and creating programs, types of computer-related jobs, project management, legal and criminal issues such as viruses and spam, the social effects and even the history and future of computers, how to install and maintain hardware and software plus a lot more.

Why should you choose this course?

Good computer skills are valuable in all walks of life. Although many people can use computers reasonably effectively, a good understanding of what is really going on 'inside the box' is an enormous advantage. It will give you the confidence and ability to adapt to new programs.

If you are interested in problem solving, programming or doing puzzles, then you will enjoy this subject. You do not have to be great at Mathematics, just able to think simply and logically about a problem and break it down into simple tasks.

We also offer ECDL that will give you basic practical computer skills using certain programs. The scope is narrower than GCSE ICT.

Examining Board: OCR

Controlled Assessment: Two pieces; creating a multimedia solution and use of ICT applications (60%).

Examinations: Two written papers of 1 hour each (40%).

A Level Access: A Level Computing may be studied without GCSE ICT.

ITALIAN

The course

The course aims to develop the ability to use the language effectively for practical communication both in speech and writing. It will build on the knowledge of Italian acquired in Year 8 and 9 to develop understanding of spoken and written Italian and it will enhance the students' ability to communicate effectively by increasing the range of vocabulary and structures and extending their knowledge of grammar and their ability to apply it.

The course will also foster understanding and awareness of Italy, its people and their way of life. It will offer enjoyment, a sense of achievement and intellectual stimulation.

Pupils will have the opportunity to work together developing and improving their skills through creative activities such as role-plays, songs, games, poetry writing, presentations and discussions.

Content

Topic areas with related sub-topics are:

Media and Culture

- Music/film/reading
- Fashion/celebrities/religion
- Blogs/internet

Sport and Leisure

- Hobbies/interests
- Sporting events
- Lifestyle choices

Travel and tourism

- Holidays
- Accommodation
- Eating, food, drink

Business, work and employment

- Work experience/part-time jobs
- Product or service information

Examining Board: Edexcel

Examinations: Skills will be assessed in four different papers:
Listening and Understanding (20%): final exam at the end of Year 11
Speaking (30%): controlled assessment, completed in Year 11
Reading and Understanding (20%): final exam at the end of Year 11
Writing (30%): controlled assessment, completed in Year 11.

A Level Access: A Level Italian cannot be studied without GCSE Italian.

JAPANESE

The course

If you enjoy learning about other cultures and ways of life and are intrigued by a non-European language with a different script, this is the right course for you. You will be at an advantage if you have attended a taster course in Year 9.

Japan has a fascinating culture and is also an influential economic power. It is steeped in the deepest of traditions dating back thousands of years. Even today, we are still under the spell of its traditional art and customs: Judo, as one of the greatest forms of martial art, liberates your mind and humbles your soul. With discipline and honour, the tradition of Samurai has taught the world about living with dignity and loyalty. Hanami, as the most popular spring activity in Japan, brings pleasure to the eyes and soothing power to the soul. Today's Japan continues to shift the world of fashion and technology with cute fictional characters like Hello Kitty and high-tech play stations. With a knowledge of Japanese language, you will be able to enjoy all this as an active participant rather than a secret admirer. Learning Japanese provides you with a unique edge over others, because you will become a great asset to multi-national corporations like SONY, TOSHIBA or TOYOTA.

Please do not be intimidated by this exotic language. Japanese Grammar is in fact fairly easy, because it has no genders, no cases, no plural endings, no adjectival agreement and no verb endings. This course is designed to help you master the basics of the language and develop the listening, reading, writing and oral skills that are used in daily conversations. It will also introduce you to Japanese history and culture using authentic materials, CDs, DVDs and the internet.

During the 2-year course you will learn to:

- Read and write Hiragana and Katakana
- Read and write 200 Kanji characters
- Apply language skills across a range of contexts
- Become familiar with Japanese culture

Topics covered include:

- Education, training and employment
- Family, home and daily routine
- Media, entertainment and youth culture
- Social activities, fitness and health

Examining Board: Edexcel

Controlled Assessment: There is no controlled assessment or coursework for this subject.

Examinations: **Listening (23%):** assessed by examination

Reading (23%): assessed by examination

Writing (27%): assessed by examination

Speaking (27%): assessed externally after a one-to-one recorded oral examination with your own teacher. (There is additional preparation for the oral test in Year 11.)

A Level Access: A Level Japanese cannot be studied without GCSE Japanese.

LATIN

The course

If you enjoy studying Latin now, you are certain to find the GCSE course stimulating. The work you have already done in Years 7-9 is an excellent foundation for it. Note that you may take Latin with Classical Civilisation or Greek, if you wish. Latin helps develop your mental dexterity and analytical skills. A GCSE in Latin is a distinctive qualification, and we are fortunate in being able to offer it at JAGS.

Content

Initially we continue to use the Cambridge Latin Course, building on the grammar and vocabulary we have already covered in Years 7-9. By reading the stories about the characters and their lives, the plot becomes increasingly entertaining as the scene shifts to Rome.

From this we progress to the study of 'real' Latin literature. You will read and discuss prose extracts from an anthology of Latin writing which has been specially chosen to be interesting and enjoyable for GCSE candidates, including **Caesar**, **Tacitus** and **Pliny** writing about Britain in the time of the Druids. You will also read a selection of Latin poetry by authors such as **Virgil**, **Ovid** and **Horace**. As in Greek and Classical Civilisation, you will have the opportunity to extend your understanding of the subject by studying artefacts in the British Museum and other national collections, and to go to talks about ancient Rome and Classical literature.

Examining Board: OCR (see www.ocr.org.uk for full details)

Controlled Assessment: There is no controlled assessment or coursework for this subject.

Examinations: The subject is examined in written papers, taken at the end of the course.

Unit A401 Language (1 hour) = 25% of total marks: tests your understanding of unseen Latin through translation from Latin and comprehension questions: the passages will recount a story or stories drawn from mythology or Latin domestic life.

Unit A402 Language (1 hour) = 25% of total marks: tests your understanding of unseen Latin through translation from Latin and comprehension questions: the passages will recount a story or stories drawn from history.

Unit A403 Prose Literature (1 hour) = 25% of total marks: tests your knowledge, appreciation and understanding of one of two Latin prescribed prose texts.

Unit A404 Verse Literature (1 hour) = 25% of total marks: tests your knowledge, appreciation and understanding of one of two Latin prescribed verse texts.

A Level Access: A Level Latin cannot be studied without GCSE Latin.

MATHEMATICS

The course

The Mathematics Syllabus aims to enable you to:

1. Develop a positive attitude to Mathematics
2. Consolidate basic skills and meet appropriately challenging work
3. Apply your mathematical knowledge and understanding to solve problems
4. Think and communicate mathematically - precisely, logically and creatively
5. Appreciate the place and use of Mathematics in society
6. Apply mathematical concepts to real life situations
7. Work co-operatively and in an independent, practical and investigative way
8. Acquire a firm foundation for further study.

As well as being taught to solve numerical, algebraic and spatial problems and how to look critically at collecting, processing and interpreting data, you will learn how to estimate and calculate probabilities of events. Using a calculator efficiently for calculation and graph plotting are two important skills that are both built into the course.

Examining Board:	Edexcel IGCSE Mathematics (Specification A) (4MA0) Higher Tier
Controlled Assessment:	There is no controlled assessment or coursework for this subject.
Examinations:	There are 2 examination papers, each worth 50% of the final mark. You are allowed to use a calculator for both papers.
A Level Access:	A Level Mathematics cannot be studied without GCSE Mathematics.

MUSIC

The course

GCSE Music gives you the opportunity to become a more rounded musician and to discover some really exciting music, in both challenging and familiar styles. You need to be about Grade 4 standard at the start of the course.

You will be given the opportunity to deepen your awareness of the different styles through listening, analysing, composing and performing work relating to twelve set works in four different 'Areas of Study'. These cover classical, contemporary, world and pop music; from Mozart to minimalism and electronic music, to jazz and dance music, to African drumming and folk.

Music Technology is an important part of the course and you will learn how to use *Sibelius* and *Cubase* for composition.

Involvement in active music making within the school is essential, be it in Symphony Orchestra, Jazz Band, Chamber Choir or any other group. You are also expected to take full advantage of other performing opportunities such as the House Music Competition and the Piano Festival.

Examining Board: Edexcel

Controlled Assessment: Performance: 30% of final marks
Composition: 30% of final marks.

Examinations: Listening and Appraising: 40% of final marks.

A Level Access: A Level Music cannot be studied without GCSE Music.

PHYSICAL EDUCATION

The course

GCSE Physical Education is an extension of the core curriculum aimed at those pupils who wish to advance their practical and theoretical understanding of this subject.

There are four units in the course and the GCSE is a double award thus the pupils gain two GCSEs.

Unit 1 Knowledge and Understanding for The Active Participant

Students will develop their knowledge and understanding of the following roles that the active participant can adopt: player/performer, organiser, leader/coach, choreographer and official. They will also learn the reasons how a variety of factors such as disability, gender and age can play a part in physical development. There is a strong link with biological effects that also affect performance and the concept that different areas of fitness training can affect performance.

Assessment is by external examination and this is 20% of the award.

Unit 2 The Active Participant

Students will have the opportunity to participate in two of the above named roles with at least two performances being as a player or participant from the following areas of activity: games, gymnastics, dance, athletics, life saving and outdoor activities and fitness and health activities.

Assessment is internal and moderated by an examiner. It is 30% of the award.

Unit 3 Knowledge and Understanding for The Involved Participant

This unit covers topics such as administration of sport, fitness testing, training and the effect on performance, diet and first aid.

Assessment is by external examination and this is 20% of the award.

Unit 4 The Active Participant

This is an extension of unit 2 and the students will have four internal assessments, from the roles mentioned in unit 1.

Assessment is internal and moderated by an external examiner. It is 30% of the award.

Examining Board: AQA

A Level Access: A Level PE may be studied without GCSE PE.

RELIGIOUS STUDIES

The course

Religious Studies GCSE is an end in itself, teaching you to understand those for whom commitment to their faith is important, increasing your general knowledge and making you think about things that matter. It is also an excellent basis for the study of RS and Philosophy at A Level.

Content

1. You will discuss a wide range of up-to-the-minute, controversial ethical issues, comparing Christian views with others'. These issues will include:
 - *Morality and decision-making*
 - *Religion and human relationships* (including marriage, divorce, sexual relationships, children and the elderly)
 - *Religion and medical ethics* (including the sanctity of life, birth control, fertility treatment, abortion, suicide, euthanasia and the use of animals in medical research)
 - *Religion and equality* (including racism and sexism)
 - *Religion, peace and justice* (including attitudes to war, violence and pacifism, crime and punishment and social injustice)
 - *Environmental issues*
2. You will learn about the history, practices, beliefs and culture of Judaism (as one of the world's major religions and the basis for Christian Ethics).
You will study
 - *The History of the Jewish People*
 - *Major Divisions and Different Interpretations*
 - *Anti-Semitism, The Holocaust, Zionism and the Middle East crisis*
 - *Festivals, Fasts and Special Days*
 - *Places and types of worship and pilgrimage*
 - *Observance at home (such as the kosher food laws) and in the Community*
 - *Celebrations associated with passage through life (birth, bar-mitzvah, marriage and death)*
 - *Sacred writings*

For both parts you will need to acquire factual knowledge, understand the responses that accompany religious commitment, evaluate issues and form your own opinions.

As part of the course you will have the opportunity to listen to visiting speakers and go on outings, to add to your enjoyment of the course.

In conclusion, this is definitely a subject for those who aim to enter one of the caring professions, for those who are curious and for those who have opinions and who like to express them!

Examining Board:	AQA
Controlled Assessment:	There is no controlled assessment or coursework for this subject.
Examinations:	Two examinations of 1 hour 30 minutes each, one for each part of the course (as detailed above), amounting to 100% of the final marks.
A Level Access:	A Level Religious Studies may be studied without GCSE Religious Studies.

RUSSIAN

The course

- Are you thinking of a career in which foreign languages are important or beneficial?
- Art, Music, History, Literature - Russia has a rich culture waiting to be explored in greater depth.
- Russian GCSE will be a challenge - are you ready for it?
- Be one of the few people to speak Russian!

Many people think that over the next 20 years Russia will become a powerful economic force in the world, and being able to speak Russian could possibly put you in an advantageous position as regards employment opportunities. Indeed, having Russian on your CV will always prove to be a talking point at future university and job interviews!

Content

If you have studied Russian in Years 8 and 9 or equally if you have completed the Year 9 taster course, you will already have a good grounding in many areas of the GCSE topic vocabulary. In Years 10 and 11, the course will then go on to concentrate on the following topic areas:

- Out and About;
- Customer services and transactions;
- Personal information; and,
- Future plans, education and work.

The speaking and writing units are slightly narrower in focus and will relate to the following broad themes:

- Media, travel and culture; and,
- Sport, leisure and work

Additional preparation for the Speaking examination is given in the form of an extra oral lesson each week in Year 11.

Examining Board: Edexcel

Controlled Assessment: There is no controlled assessment or coursework for this subject.

Examinations: The examination tests your skills in listening, speaking, reading and writing.

There will be 4 papers which are weighted as follows:

Listening: 23%

Speaking: 27% (There is flexibility and choice in the speaking unit, and students are free to focus on any aspect of **one** of these two themes mentioned above.)

Reading: 23%

Writing: 27% (A dictionary can be used in the Writing Paper.)

A Level Access: A Level Russian cannot be studied without GCSE Russian.

SCIENCE

Girls continue with nine lessons per week in Science in Year 10. Each girl will have three lessons per week in Year 10 and will have four lessons in Year 11 in each of the three Science subjects.

AQA Certificates in Biology, Chemistry and Physics are qualifications equivalent to a GCSE full course in the separate sciences, with substantial overlap with the new GCSE Science specifications. The courses contain a broad range of science topics to engage and stimulate your interest in science whilst providing the knowledge and understanding required for progression to A Level. The courses emphasise the application of science. Each of the Biology, Chemistry and Physics courses is assessed in a linear format by two 90 minute examinations, of equal weighting, that will be sat at the end of Year 11.

An important element of the course is the understanding of the scientific process and implementing practical and investigative work. The courses in Biology, Chemistry and Physics assess your skills in scientific enquiry, including practical and investigative work, within the written examinations.

Scientists need to be able to communicate their knowledge and understanding to others in a clear, comprehensive and literate manner. One question in each paper will specifically test your ability to use good English, organise information clearly and use scientific terms correctly. Each paper will also include some questions that require you to write full descriptions, explanations and/or evaluations in which statements and ideas are clearly and coherently linked.

BIOLOGY

The Biology course content is broad, however, there is a particular focus on human biology, genetics and biotechnology which give a particular relevance so pupils are expected to enjoy the subject. Practical work is not assessed separately from the written examination which removes the constraints of practical assessment and allows teachers to choose tasks which are both enjoyable and useful in helping understanding. The content of the AQA certificate in Biology provides the opportunity for pupils to gain an understanding of the fundamental principles of Biology and that will provide a solid foundation for those that choose to continue the subject to A Level. Tests throughout the course are made up using past paper questions so that pupils as well as their teachers can monitor progress. Main areas of theory covered are as listed below and some of those topics will have been met already by pupils during Year 9.

The course content for Biology includes:

- **Cell activity**
- **Tissues, organs and organ systems**
Animal and plant tissues, organs and systems
- **Biological molecules**
- **Human biology**
Breathing and respiration
Circulation, digestion and the nervous system
Homeostasis
- **Defence against infectious disease**
- **Plants as organisms**
Photosynthesis, exchange and transport
Plant responses and sexual reproduction in plants
- **Variation and inheritance**
Variation, Genetics and Genetic manipulation
- **Adaptation and interdependence**
Adaptation, environmental change and distribution of organisms
Humans and their effects on the environment
- **Evolution**
- **Energy and biomass in food chains**
- **Decay and the carbon cycle**

CHEMISTRY

The AQA Certificate in Chemistry provides pupils with a solid understanding of theoretical and practical aspects of the subject. The Periodic Table is used to provide a framework for study of Groups of elements and trends in behaviour, structure and bonding. The reasons why and how reactions occur are explored by looking at rates of reaction, energy changes and electrolysis. Practical investigations are used to illustrate the underlying theory. The use of chemicals throughout everyday life is developed by looking at resources such as crude oil and how we can make this into more useful materials such as fuels, polymers and pharmaceuticals. Analysis of such chemicals is studied in the laboratory and extended to include aspects of instrumental analysis used in medicine and forensic science. Whilst there is no separate practical assessment, practical work is a very important aspect of the course and is examined within the written papers.

The course content for Chemistry includes:

- **The fundamental ideas in Chemistry**
Solids, liquids and gases, atoms; chemical reactions and related calculations
- **Bonding and structure**
Bonding; structure and how it influences the properties and uses of substances
- **Air and water**
Air and oxygen; water; rusting
- **The Periodic Table**
The periodic table; trends within the periodic table
- **Acids bases and salts**
Acids bases and salts; making salts; metal carbonates
- **Metals**
The reactivity series; extracting metals; structure and bonding in metals and alloys; properties and uses of metals
- **Rates of reaction**
- **Crude oil and fuels**
Crude oil; hydrocarbons; fuels
- **Other useful substances from crude oil**
Obtaining useful substances from crude oil; polymers
- **Alcohols, carboxylic acids and esters**
Alcohols; carboxylic acids; esters
- **Energy changes in chemical reactions**
Exothermic and endothermic reactions; calculating and explaining energy changes; the production of ammonia
- **Electrolysis**
- **Analysis**
Analysing substances; analysis of mixtures

PHYSICS

The Physics course covers a tremendous range, from the innermost workings of the atom to the outer reaches of the universe, plus a multitude of scientific topics between these two extremes. You will be encouraged to express your ideas about physical laws and test them by observation and experiment. The course will illustrate how Physics is behind the technology that has put man on the moon, made the internet possible and revolutionised surgery, as well as the technologies that will shape the future, such as nuclear fusion and digital communications. Each unit of work lasts approximately half a term, and following each of these there is a progress test.

The course content for Physics includes:

- **Forces and their effects**
Motion; momentum; falling objects; elasticity; stability; circular motion; hydraulics
- **Waves**
Electromagnetic spectrum; sound; ultrasound; lenses; red-shift and the big bang
- **Heating processes**
Kinetic theory; energy transfer; infrared radiation; efficiency; insulating buildings
- **Electricity**
Circuits; household electricity; transferring electrical energy; the National Grid
- **Motors, generators and transformers**
- **Nuclear physics**
Atomic structure; radiation; fission; fusion and star life cycle

The Examination Board and Assessment details of each subject are identical.

Examining Board:	AQA
Controlled Assessment:	Practical work is assessed in context within the written examinations.
Examinations:	2 written papers in each of the sciences.
A Level Access:	The AQA certificates provide a sound foundation for A Level sciences.

SPANISH

The course

Spanish IGCSE is a lively way to learn to speak, read and write the language and find out about Spain's and Latin America's varied and enchanting culture. Having studied Spanish at Key Stage 3, you are well prepared to do Spanish at IGCSE level. You already know a lot of the vocabulary and grammar you will need for IGCSE. You will build on these topics during your IGCSE course, as well as moving on to new topics. Therefore, you are already part way there! The course is designed to help you communicate in many areas of life from everyday activities to the international world. It aims to encourage enjoyment, provide intellectual stimulation and it is the stepping stone for AS/A2 Spanish.

The examination topics are:

- Area A** **Everyday Activities** (Home Life/School/Food/Health)
- Area B** **Personal and Social Life** (Family/Home/Leisure/Festivals/Holidays)
- Area C** **The World Around Us** (Home Town/Local Area/Natural environment/Places and customs/Travel and transport)
- Area D** **The World of Work** (Continuing education/Careers and employment/Language and communication)
- Area E** **The International World** (Tourism/Life in other countries/World events and issues)

Studying Spanish at IGCSE adds an international dimension to your choice of GCSE subjects, which is something many future employers and universities look for. The advantages of modern languages for anyone wishing to work successfully in the international world are evident. Furthermore, language training also develops many skills which are useful in a wide range of future careers, such as the ability to communicate clearly, being confident about speaking in public, using problem-solving strategies etc.

Examining Board: Cambridge IGCSE

Examinations: **Listening (25%):** 45 minute paper at the end of Year 11
Reading and Directed Writing (25%): 90 minute paper at the end of Year 11
Speaking (25%): 45 minute paper at the end of Year 11
Continuous Writing (25%): 75 minute paper at the end of Year 11

(There is additional preparation for the oral test in small groups in Year 11.)

All girls are entered for the Higher Tier examination.

A Level Access: A Level Spanish cannot be studied without IGCSE Spanish.