

# ST GEORGE'S COLLEGE



## AS and A Level Subject Selection Booklet 2022

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## **SUBJECT CHOICES**

The purpose of this document is to help potential A Level Students to make an informed decision about their subject choices for the 6<sup>th</sup> Form. It details the subjects available, provides information about the individual subjects, and provides some very general guidelines about which careers they might suit.

There are a number of factors that should be taken into consideration when choosing AS and A Level subjects. These include:

- Your ability in this area, as reflected by grades achieved in the past in these subjects;
- How much a subject interests you, and how much you enjoy it;
- Which subjects are necessary for tertiary education courses that you might be considering.

**Parents are asked to encourage their sons and daughters to employ Ignatian discernment when making their subject choices, as they should with all decisions in their lives, be they big or small.**

The majority of A Level subjects specify entry requirements in terms of attainment at IGCSE Level. Students who do not meet these requirements are unlikely to be admitted to these courses. More stringent standards are applied to external applicants

The College cannot guarantee that a place will be offered to all students, and reserves the right to decline students, in their best interests, who are not deemed to be suitable for 6<sup>th</sup> Form study. In addition, it should be noted that students who do not optimise available study periods are unlikely to succeed in their AS Level studies. Most students are unlikely to have all 48 periods in a cycle allocated to classes, and those 'free' periods need to be used wisely. The volume and depth of work demands independent study and extensive research at this level.

Unfortunately, there are no universal specifications for entry into Colleges and Universities. Admission requirements vary between faculties, institutions and countries. If you are aware of what you might want to study and where you are likely to study, you will need to research what subjects are specified for entry. Be aware that tertiary education is constantly evolving, so your research needs to be continuous and intensive.

The Careers Department at St George's College has numerous resources in this regard, which you are encouraged to take advantage of. Should you require assistance with subject choices, please arrange to see Mrs Warren-Codrington, by contacting her at [careers@stgeorges.co.zw](mailto:careers@stgeorges.co.zw).

**Mr J Farrelly  
Headmaster**

**Mrs M Warren-Codrington  
Careers Guidance Counsellor**

## PLEASE NOTE:

1. For the 'A' Level intake 2022 most Subjects will be taught according to the syllabuses of the Cambridge Assessment International Education (CAIE) Examining Board.
2. This Examining Board offers two levels of examination, 'Advanced Subsidiary' (AS) at the end of Lower Sixth, and 'A2' at the end of Upper Sixth, both of which are necessary to write in most subjects to achieve an 'A' Level grade at the end of two years.
3. Students may take up to five subjects to 'AS' level in their first year (including the compulsory AS English Language), if their IGCSE results justify this, then take four subjects to 'A2' Level in their second year. However, it is recommended that most students select four subjects for AS Level, and three for A2.
4. Payment for these exams will be charged to their student accounts for which parents of students are **responsible**.
5. From each of the following five Groups A, B, C, D & E only one subject may be chosen in each Group, as all the subjects in the group have been timetabled simultaneously. Students will be allocated to an AS English Language class, and this subject is often a prerequisite for university admission.
6. If for any subject there are more applicants than places available, priority will be given according to the overall and individual quality of IGCSE Level results attained by the students applying and the recommendation of the teacher concerned. (e.g. an 'A' grade may take priority over a 'B' grade). For most subjects, entry into 'A' Level will require a minimum IGCSE Level A or B grade.
7. The proposed subject groupings below are under discussion and may be subject to change.
8. Religious Education is compulsory for all students, but it is not examinable.

## SUBJECT GROUPINGS - 'AS' LEVEL 2022

GROUP A	Places Available	GROUP B	Places Available	GROUP C	Places Available	GROUP D	Places Available	GROUP E	Places Available
Geography	20	Biology	20	IT	30	Accounts	20	CISCO	20
Mathematics	100	Business	20	Chemistry	20	Art & Design	20	Chemistry	20
		Computer Science	15	Economics	20	Biology	20	French	10
		Design & Technology	20	English Literature	15	Business	20	Physical Education	15
		History	20	Physics	20	Chemistry	20	Physics	20
						Computer Science	15		
						Geography	20		
						Physics	20		
English Language		English Language		English Language		English Language		English Language	

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## **SUBJECT INFORMATION**

### **ACCOUNTING**

The Cambridge International AS and A Level Accounting syllabus enables students to apply their accounting knowledge and understanding in order to analyse and present information, give reasoned explanations, and make judgements and recommendations. The syllabus covers topics such as the recording of financial information, accounting principles and control systems, and the preparation of final accounts for a variety of different organisations and businesses.

Students find out about raising capital by shares and loans, ratio analysis and cost accounting, and also study the preparation of cash flow statements, cash flow analysis, and standard costing and investment appraisal, among many other topics.

#### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

A minimum of a B at IGCSE Level for Accounting is necessary, as well as passes in English and Mathematics at IGCSE. Ideal combinations are Business Studies, Mathematics, English, and Economics.

#### **CAREER PROSPECTS:**

Accounting is a useful introduction to a Bachelor of Accounting degree or any of a number of Business Degrees.

Accounting can lead to financial and management accounting in Commerce and Industry, accounting and auditing for Local and Central Government and into Business Management.

## **ART AND DESIGN**

The Cambridge International A Level Art and Design syllabus considers expression and communication. Students gain an understanding of visual perception and aesthetic experience, and the ways in which art and design creates a language of its own.

Most of the work for this syllabus is practical or studio based, so that students can develop their abilities of observation and analysis of the visual world, sensitivity, skill, personal expression and imagination. They also learn how to relate their skills to an enhanced knowledge of their own cultures, past and present, as well as an appreciation of practical design problems.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

Essentially, a C Grade at IGCSE Level is a basic skills level requirement. As the number who can be catered for is limited it is possible that even a C Grade could be inadequate.

### **CAREER PROSPECTS:**

Art is the discipline of practical dreamers and innovators. The visual art industry is one of the fastest growing and diversified in the modern world. Art is regarded as requisite skill at university level in disciplines such as Advertisement, Multimedia Art and Animation, Architecture, Film production, Industrial design. Graphic design as well as in such careers as curatorship and web-designing. Employment in graphic designing is growing faster than the average of all other occupations as demand continues to grow from advertisers, publishers, and computer designing firms. Multimedia Art is also growing just as fast in both developed and developing countries.

## **BIOLOGY**

Cambridge International AS and A Level Biology builds on the skills acquired at Cambridge IGCSE (or equivalent) level. The syllabus includes the main theoretical concepts which are fundamental to the subject, a section on some current applications of biology, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination.

The emphasis throughout is on the understanding of concepts and the application of biology ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path. Cambridge International AS and A Level Biology is ideal for students who want to study biology or a wide variety of related subjects at university or to follow a career in science.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

A minimum of an A for Biology and B for Chemistry, English Language and Literature at IGCSE Level is required for admission to Biology at 6th form. A keen interest in Biology as well as a good work ethic is necessary for independent study and additional research.

Chemistry is highly recommended as a suitable combination. Geography, Mathematics and Physics are recommended. English Literature is also suitable.

### **CAREER PROSPECTS:**

Apart from the Biological Sciences themselves, Biology at the Advanced Level can lead to further study and/or careers in a wide variety of fields. Some of these are Agriculture, Agronomy, Biochemistry, Dentistry, Information Science, Medicine, Ecology, Teaching, Veterinary Medicine, Genetics and Biotechnology.

## **BUSINESS STUDIES**

The Business Studies syllabus enables students to understand and appreciate the nature and scope of business, and the role it plays in society. The syllabus covers economic, environmental, ethical, governmental, legal, social and technological issues, and encourages a critical understanding of organisations, the markets they serve and the process of adding value. Students examine the management of organisations and, in particular, the process of decision-making in a dynamic external environment.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

A minimum of a C at IGCSE Level in English and Mathematics; and a C for Business Studies is required. In addition:

- Ability and commitment to work hard, and keeping up to date with regular assignments, notes and homework.
- Ability to develop analytical and evaluation skills for use in a specific business context.
- Ability to construct and deliver strong essay work.
- Preparedness to learn and understand many new concepts in a subject which is high in content.

Subjects which complement Business Studies include Accounts, English Literature, History, Mathematics and Economics.

### **CAREER PROSPECTS:**

Further education lies in a number of business courses at the University and Technikon level. Job opportunities exist in the fields of Business Management, Journalism, Marketing, Occupational Psychology, Personnel Management, Production Management and Accountancy.

## **CHEMISTRY**

Cambridge International AS and A Level Chemistry builds on the skills acquired at Cambridge IGCSE (or equivalent) level. The syllabus includes the main theoretical concepts which are fundamental to the subject, a section on some current applications of chemistry, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination.

The emphasis throughout is on the understanding of concepts and the application of chemistry ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path. Cambridge International AS and A Level Chemistry is ideal for students who want to study chemistry or a wide variety of related subjects at university or to follow a career in science.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

This subject facilitates entry into a number of degree programmes, therefore it is a popular choice at A Level, and applications usually outnumber places available. Suggested minimum requirements include A for Chemistry and B for Mathematics at IGCSE Level. Grades for Physics and English at IGCSE Level will also be considered.

Chemistry is traditionally, but not necessarily, studied in conjunction with other sciences and preference may be given to students taking other science subjects.

### **CAREER PROSPECTS:**

Of all the science subjects, Chemistry seems to offer the widest range of options. As a discipline (BSc Chem), it has an input into most scientific fields, e.g. Environmental Protection, Health Sciences (including Toxicology), Biological Sciences (including Genetic Engineering), Forensic Science, Transportation Industries (including Aviation), Teaching, Research, Development Production, Industry, Marketing,

Quality Control, Brewing Technology, Food Processing. Other degrees for which chemistry is appropriate include Chemical Engineering, Dentistry, Pharmacy, Physiotherapy, Bio-Chemistry, Agriculture, Geology and Oceanography. A Level Chemistry is required by most Universities for entry into Medical and Veterinary studies.

### **CISCO – ITE AND CCNA**

St George's College (a registered CISCO NETWORKING ACADEMY), in conjunction with Cisco Systems Inc. (US), offers the following courses:

New IT Essentials v5.0

The IT Essentials course covers the fundamentals of computer hardware and software and advanced concepts such as security, networking, and the responsibilities of an IT professional. It is designed for students who want to pursue careers in ICT and students who want to gain practical knowledge of how a computer works.

\*New CCNA Routing and Switching v5.0

CCNA 1 - Introduction to Networking

This is designed for students who are seeking entry-level jobs in the ICT industry or hope to fulfil prerequisites to pursue more specialized ICT skills. CCNA Routing and Switching curriculum provides an integrated and comprehensive coverage of networking topics, from fundamentals to advanced applications and services, while providing opportunities for hands-on practical experience and career skills development.

The College has all the new sophisticated technologies, which include Cisco routers and switches for industry level practical experience. All Cisco Modules include embedded, highly interactive e-doing activities that stimulate learning and improve knowledge retention, hands-on labs, simulation-based learning activities, and online assessments and the course is recognized internationally.

The students are exempted from some courses at universities if they want to pursue a degree in Networking.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

A B grade or better in IGCSE ICT. A pass in IGCSE Mathematics is recommended.

### **CAREER OPPORTUNITIES:**

These include Network Administrator, Network Engineer, Network Technician and Systems Administrator.

## **COMPUTER SCIENCE**

The aim of the Cambridge International AS and A Level Computer Science syllabus is to encourage students to develop an understanding of the fundamental principles of computer science and how computer programs work in a range of contexts.

Students will study topics including information representation, communication and Internet technologies, hardware, software development, and relational database modelling. As they progress, students will develop their computational thinking and use problem solving to develop computer-based solutions using algorithms and programming languages. Studying Cambridge International AS and A Level Computer Science will help students develop a range of skills such as thinking creatively, analytically, logically and critically.

Students will also be able to appreciate the ethical issues that arise with current and emerging computing technologies.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

A minimum achievement of B for Computer Science and Mathematics (Extended) at IGCSE Level is required.

## **CAREER PROSPECTS:**

There are numerous career opportunities for students who have studied Computer Science, either as a stand-alone discipline or in conjunction with other subjects. In order to study Computer Science at university, students are likely to need Mathematics at A Level and one other science subject.

## **DESIGN & TECHNOLOGY**

This syllabus encourages students to be innovative and creative and to develop their ability to design high quality products. Through their studies, they will develop an awareness of the significance of design and technology on society, while also learning more about production processes and industrial practices.

Students will be encouraged to use ICT to build their design and technological abilities, and develop critical evaluation skills which they can employ in a variety of technical, aesthetic, economic, environmental, social and cultural contexts. As a result, students will also become discerning consumers of design and technology, able to make informed choices.

In Part 2 of the syllabus there are three optional focus areas, and A Level candidates need to choose between Product Design, Practical Technology and Graphic Products.

## **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

2016 was the first year that this subject was offered at AS Level. It is not necessary to have studied Design & Technology at IGCSE Level, although it would be a distinct advantage. This subject will complement Mathematics, Physics, IT and Art. Students with high Spatial Ability may enjoy this subject.

## **CAREER PROSPECTS:**

Numerous tertiary qualifications recognise D & T as a relevant subject at A Level. Careers in the design, animation, graphics and engineering sectors are just some of the possibilities for studies in this area.

## **ECONOMICS**

Through the Cambridge International AS and A Level Economics syllabus, students study how to explain and analyse economic issues and arguments, evaluate economic information, and organise, present and communicate ideas and judgements clearly.

The syllabus covers a range of basic economic ideas, including an introduction to the price system and government intervention, international trade and exchange rates, the measurement of employment and inflation, and the causes and consequences of inflation. Students also study the price system, the theory of the firm, market failure, macroeconomic theory and policy, and economic growth and development.

## **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

IGCSE Level English and Mathematics is prerequisite, evaluation skills and deductive reasoning will be an advantage.

Economics can be suitably combined with both Arts and Science subjects. It is rapidly becoming the most popular University subject and will become more so as natural resources are depleted; not to mention the long-term preservation of the planet.

## **CAREER PROSPECTS:**

Economics is a component in many Commerce and Science degrees, and will prepare students for a number of careers in the business sector, as well as numerous other professions.

## **ENGLISH LANGUAGE**

**AS English Language is compulsory for all L6 students.** Cambridge International AS Level English Language gives students the opportunity to study English language and its use in contemporary communication. It aims to encourage a critical response to texts in a range of forms, styles and contexts, and to promote skills of communication, reading, research and analysis.

Through their study, students will develop an ability to read and analyse material, gaining further knowledge and understanding of English language features and issues, and writing clearly, accurately, creatively and effectively for different purposes and audiences.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

English at IGCSE Level.

### **CAREER PROSPECTS:**

As well as helping students to succeed in other A Level subjects, the skills developed in both English courses are useful in a number of careers or degrees, for example, journalism, publishing, advertising, law, teaching, public relations, the theatre, the film industry, politics, the media, and writing. It is a complementary subject to all disciplines hence the requirement that all students study this subject.

## **ENGLISH LITERATURE**

Students following the Cambridge International AS and A Level English in Literature syllabus will study a range of texts in the three main forms: prose, poetry and drama. Set texts are offered from a wide range of different periods and cultures. This subject involves two examination papers at AS Level and two at A Level, covering a total of six set books and an unseen paper which is dependent on critical analysis taken at the end of the U6 year.

Students will develop skills of reading and analysis of texts, and are encouraged to undertake wider reading to aid understanding of the texts studied. They will learn skills of effective and appropriate communication including the ability to discuss the critical context of texts.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

Passes in both Language and Literature at IGCSE Level are essential. Students who do not enjoy self-motivated reading should not try to do this subject as there is a great deal of compulsory reading. There is a lot of essay writing involved.

### **CAREER PROSPECTS:**

As well as helping students to succeed in other A Level subjects, the skills developed in both English courses are useful in a number of careers or degrees, for example, Journalism, Publishing, Advertising, Law, Teaching, Public Relations, the Theatre, the Film Industry, Politics, the Media, and Writing.

## **FRENCH**

Cambridge International A Level French builds on the language skills gained at Cambridge IGCSE, Cambridge O Level or Cambridge International AS Level, and is the ideal foundation for university-level study, or to improve career prospects. The source materials studied specifically concern current and global affairs and extend to oral proficiency. AS Level French excludes the Literature component of A Level French. The literature component leads to a better understanding of the history and culture of the French.

Students will gain an understanding of how to use the language in a variety of situations. They will be expected to handle texts and other source materials, extracting information in order to respond to specific tasks. Through their studies, students can expect to achieve greater fluency, accuracy and confidence in the language.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

A minimum of a B grade at IGCSE Level.

### **CAREER PROSPECTS:**

In addition to Translation and Teaching, French is a useful adjunct in many professions (Business Administration, Communication, Finance, Accountancy, Law, Foreign Affairs). It may be studied at University as a component of an Arts degree.

## **GEOGRAPHY**

The Geography syllabus builds upon skills gained at Cambridge IGCSE (or equivalent) Level study. Students widen their knowledge and understanding of the subject, while developing their investigative abilities and their evaluation and decision-making skills.

The syllabus is wide-ranging and comprises a variety of options, including Physical, Human and Economic Geography. Students can study topics such as hydrology and fluvial geomorphology, atmosphere and weather, rocks and weathering, population change and settlement dynamics. The syllabus considers a range of environments, from tropical to arid, and students can also study options such as environmental management, global interdependence and economic transition.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

Students must have achieved a B grade in Geography and passes in English, Mathematics and Science subjects at IGCSE Level, and must have a keen interest in the subject. They should also be in a position to undertake fieldwork. Extensive reading is necessary at A Level. Students will be required to refer to detailed case-studies.

### **CAREER PROSPECTS:**

Geography is useful for a number of careers, including Ecology, Environmental Management, Cartography, Geographical Information Systems, Geology, Mining, Agriculture, Forestry, Water Management, Climatology and Meteorology, Surveying, Demography, Rural and Urban Planning.

Geography can be recognised as both a humanity and a science subject.

## **HISTORY**

Cambridge International AS and A Level History is a flexible and wide-ranging syllabus covering modern history in the nineteenth and twentieth centuries. The syllabus builds upon skills gained at Cambridge IGCSE or equivalent and develops lifelong skills including understanding issues and themes within a historical period.

The emphasis is again on both historical knowledge and on the skills required for historical research. Students develop an understanding of cause and effect, continuity and change, similarity and difference, and use historical evidence as part of their studies. At AS students can select from topics on European, American or International History.

At A Level, students can select from topics on European, American, African, Southeast Asian and International history. Teachers choose which periods to focus on, allowing them to build a course that reflects their students' interests and staff specialisms, or which is relevant to the local or regional context.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

A minimum B grade in History at IGCSE Level is required, along with a good command of the English Language. Extensive reading is necessary for the A level syllabus, making comprehension, analytical and thinking skills essential for success in this subject.

### **CAREER PROSPECTS:**

Very few of our students aim at the academic life but History provides a suitable background for Law, Accountancy, Business Studies, Journalism and Public Administration. The choice of other A Level subjects would depend on which career the student had in mind. For example, those intending to enter the commercial world could combine history with Business Studies, Accounts or Economics, while languages and English Literature might be a more suitable combination for Law and Journalism.

## **INFORMATION TECHNOLOGY**

(New Subject Code 9626, Replaces Applied ICT)

This syllabus encourages students to become effective and discerning users of IT. It helps them to develop a broad range of IT skills, knowledge and understanding. Students study the structure and use of IT systems within a wide range of organisations, including the use of a variety of computer networks. As a result, students gain an understanding of IT system life cycles, and how these affect the workplace. They also learn about the wider impact of IT on society in general. At A Level, students also study simple programming for the web relevant to their own use of IT.

Key Concepts:

- Impact of Information Technology – processing information.
- Hardware and software – how these work, and how they interact with each other and within our environment.
- Network – sharing resources.
- The internet – benefits to society, security of data, both in the work place and for personal data.
- System life cycle – how each phase of development is organized into separate stages.
- New technologies – as the information industry changes so rapidly, it is important to keep track of new and emerging technologies and consider how they might affect everyday life.

Papers still take the format of 1 practical paper and 1 theory paper.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

A minimum of a B grade in IGCSE ICT. A pass in IGCSE Mathematics is recommended.

## **CAREER PROSPECTS:**

Students who take IT get a solid foundation for further studies in Information Technology or Information Systems and career opportunities as a system analyst or software engineer.

## **MATHEMATICS**

Mathematics in the Sixth Form should be an exciting, imaginative, inspiring introduction to some of the greatest achievements of the human mind. Usually, however, it is a fiendishly difficult intellectual assault course. The A Level course not only introduces a wide variety of new mathematical ideas and techniques; it leads up to exams that demand a remarkably high level of mathematical expertise. Students need to have been through the syllabus once by the time the July Mocks come, in the second year. A fast pace of work is therefore essential.

Clearly the student needs not only a liking for mathematics and certain ability at it, but especially a dogged, determined persistence. Perhaps the key quality, however, is the student's insistence that they make the subject their own, by thinking things out for themselves and fashioning their own mathematical universe. Mere mechanical memorising of facts and methods is rightly disastrous at A Level.

## **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

Only students with a B Grade or better at IGCSE Level (extended syllabus) are admitted into the courses.

## **CAREER PROSPECTS:**

Mathematics is required at A Level for entry into most degree courses locally, regionally and internationally. It is essential for careers in Architecture, Commerce, and Engineering Science, among others.

## **PHYSICAL EDUCATION**

The Physical Education syllabus is both practical and theoretical, covering Anatomy and Physiology, Movement Skills And Contemporary Studies in Sport. Students are encouraged to try out a range of physical activities, including team and individual sports, games, and outdoor activities, and then use the theoretical knowledge they have gained to analyse the different factors influencing performance.

The course also encourages students to understand and explain global trends in Physical Education and Sport.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

Students should have a minimum of a C grade in both Biology and English Language at IGCSE Level. As a basic knowledge of Biology and the ability to express oneself clearly, are an essential pre-requisite to taking this course, continuing Biology and English Language beyond IGCSE Level would greatly enhance chances of success in this subject. It is not necessary to have done this subject at IGCSE.

### **CAREER PROSPECTS:**

Apart from the very real application of this subject to their personal lives, particularly in relation to a lifetime of leisure activity, this subject lends itself to a career in Personal Training, the Army, Coaching, Teaching, Emergency Medical Care, Chiropractics, and Physiotherapy. Qualifying as a Physiologist would require a shorter period of training.

## **PHYSICS**

Cambridge International AS and A Level Physics builds on the skills acquired at Cambridge IGCSE (or equivalent) level. The syllabus includes the main theoretical concepts which are fundamental to the subject, a section on some current applications of physics, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination.

The emphasis throughout is on the understanding of concepts and the application of physics ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path. Cambridge International AS and A Level Physics is ideal for students who want to study physics or a wide variety of related subjects at university or to follow a career in science.

### **ENTRY REQUIREMENTS AND RECOMMENDATIONS:**

A minimum A grade in Physics and a recommended overall score of 30 points at IGCSE Level is required. Mathematics to at least AS level is necessary. Students will need a good work ethic and a commitment to academic performance. Subjects that are useful to take in combination with Physics include Mathematics, Biology, Design & Technology, Chemistry and Computing.

### **CAREER PROSPECTS:**

A Level Physics is essential for any University Electronics course and most Engineering fields. It is also useful in a variety of science related fields, e.g. Aviation, Medicine, Physiotherapy, and Veterinary Science. Most large industrial firms employ physicists. Career opportunities also exist in Astronomy, Computer, Electronics, and Information Technology.