
IGCSE Options Booklet

Key Stage 4

◆ ◆ ◆ Congratulations to the 2019-2020 IGCSE Class! ◆ ◆ ◆



For pupils in Year 9, the choosing of option subjects is an extremely important task. Great care and thought must be put into the process.

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At the end of Year 9 you will have completed your Key Stage 3 courses. In Year 10 you will start Key Stage 4. Now is the time to consider which options you wish to study to IGCSE examination level over the next two years.

In Key Stage 4 some subjects still remain compulsory. All students must take English & Mathematics.

The remaining six subjects are selected from the options offered in this booklet. Each student should make sure their options include a Language*, one scientific subject, one humanity subject and one from drama, visual arts, music or PE. You can then opt for two other subjects from Humanities, Science or Creative Arts.

*students who need extra English support may be offered this in place of a foreign language course.

It is a difficult decision to make. Not only will the courses you decide to take determine the work you do in school but they could also influence your career possibilities.

At the moment you may not be sure about your future career, or you may change your mind over the next few years. We therefore recommend that you choose a range of subjects that will give you a flexible and balanced course.

How should I choose my options?

Good reasons for making a particular choice are because you like a subject, because you are good at it or because you will need it for your future job. Do not take a subject just because you like a particular teacher – they may not teach you next year. Also avoid taking a particular subject just because most of your friends have chosen it.

You will need to think carefully about your choices. You will need to discuss your options with your parents. You might want to look at careers websites such as www.icould.com

If the subject you want to study is new to you, we suggest that you talk to the teacher about it by making an appointment for yourself and your parents at the parent-teacher evening. If you or your parents have any problems then we hope that they will be answered at our taster day/Options day in February.

If you have further questions, please do not hesitate to contact Ms. Skoudy on k.skoudy@bisistanbul.org

Not only will your choices determine the work you do over the next two years, but also it could influence your career possibilities.

What will You Study?

You already know that some of the subjects you will study are compulsory. These are known as the core subjects.

The following table shows you these subjects.

Subject	Level		
IGCSE English	ESL	English 1 st language	English Literature
IGCSE Maths	Core	Extended	Accelerated (Add Maths)

- Your subject teachers will place you in an appropriate level based on your performance and progress in year 9
- Some students will take the IGCSE English as a second language (ESL) exam at the end of year 10 and move to the IGCSE English as a first language Exam in year 11
- Accelerated Maths students will take the IGCSE Maths exam at the end of year 10 and move on to the IGCSE Additional Maths exam at the end of year 11

The remaining lessons of the week are made up from the 6 optional subjects which will be chosen from the following list.

Languages:	Turkish, French, German, Spanish
Arts:	Drama, Visual Art, Music
PE:	Physical Education
Sciences:	Biology, Physics, Chemistry, Computer Science
Humanities:	Geography, History, Business studies, Economics, Sociology

Please note: Due to the similarity in the content of the courses it is not recommended to take both Business Studies AND Economics.

The options will be organised into blocks on the **options form** that will be issued at the after the taster day and Parent-Teacher Conferences, please make sure you and your parents attend this meeting.

You need to select one option from each block. Needless to say you cannot take the same subject in two blocks. Remember you must take at least 1 modern foreign language, 1 subject from the sciences, 1 from the Humanities in your options and one from Creative Arts or PE.

When you are making your choices you should use all the available resources to help you. Don't decide to take a subject just because your friends are taking it. Think about what you would like to do later on (University) and do your research. Some courses require a particular subject.

This booklet is designed to help you in making your choices.

You will find the content of each subject outlined on the following pages.

You should also talk to a teacher who teaches the subject.

As you read through this booklet have a piece of paper and a pencil with you. You may have questions to ask. Write down any questions you have – so you don't forget.

You must select your options using the BISI IGCSE Options Form that will be sent out after the Parent-teacher meetings in February.

What do I do now?

- Discuss your choices with your parents.
- Do your research! What subjects will you need for a particular Further Education course?
- Look at your last report card and see what subjects you are successful in. Think about subjects you enjoy.
- Select one Science (Physics, Biology, Chemistry), one Humanities (History, Geography, Business Studies, Sociology or Economics) and one from Creative Arts (Music, Visual Art, and Drama) or PE plus any other two from any of Science, Humanities, Creative Arts or Computer Science.
- Choose your Language.
- Decide what your second choice of subjects could be. This will be used if your first choices do not fit into the option blocks.
- Attend the Parent-Teacher meeting with your parents and fill in the options form.
- Talk to teachers to find out more about a subject. Talk to students who are currently studying this particular subject.

Cambridge IGCSE Drama (0411)

IGCSE Drama course is a dynamic course for those who want to develop their acting skills and/or grow their confidence when speaking publicly. As the course progresses, you will learn to better hone your voice, physicality, and creativity. You will create powerful and exciting pieces that will leave a lasting impression on an audience, collaborating creatively, negotiating, problem solving, and mastering a range of styles and conventions along the way.

At the end of the course, you will have produced a portfolio of performances – from which, you will choose your best 3 to send off as evidence of your acting prowess. These 3 pieces represent 60% of the final mark. The other 40% is generated from a written exam which generally focuses on what decisions you would make as a director.

The course is the perfect vehicle for those interested in taking IB Theatre or studying Drama at university. It is also ideal for those that just feel they need to enhance their public speaking or confidence. It is also the perfect fit for those that just enjoy Drama and want to create and have fun. The skills learned on this course are life skills and thus compliment all other subjects.

These skills include:

- problem solving
- analyzing
- creating
- presenting

Drama graduates have traditionally gone into the following sectors: teaching, film-making, theatre in education, theatre and film set design, acting, drama therapy, arts administration, broadcasting. That said, more and more frequently, big companies are seeking out people with Creative Arts degrees. Why? Because these are the people that can think outside the box and creatively.

Assessment:

Coursework (60%)

3 performances (1 group devised, 1 group scripted, 1 monologue)

Written Examination (40%)

Cambridge IGCSE Art & Design (0400)

In IGCSE Art and Design, you will learn and develop techniques to enable you to create exciting art, working in a range of mediums. You will enhance your creative problem-solving skills, as well as honing your communication skills. You will experiment with a range of processes and techniques, and investigate key artists.

The course is weighted as 50% coursework and 50% practical exam. As part of your coursework project, you will research, develop and realise a project from one area of study in the subject content from a theme set or suggested by your teacher. There are two parts to the coursework: - a portfolio and – a final outcome.

For the external assessment, you will respond to one starting point set by IGCSE. Again, there are two parts to the assignment: - supporting studies and – a final outcome, produced during a supervised test of 8 hours' total duration.

IGCSE Art and Design complements literature, mathematics, the sciences and the humanities. It is not just a way to develop visual perception and aesthetics, but also a way to learn to express oneself effectively. All careers demand commitment, perseverance, originality and good communication skills. This course will help you to strengthen your abilities in all of these areas.

Potential careers in the field of Art include: Video Game Designer, Graphic Designer, Industrial Designer, Architect, Interior Designer, Photographer, Film Producer, Illustrator, Fashion or Textile Designer, Animator, Painter, Sculptor, Ceramicist, Jeweler.

Assessment:

Coursework 50% and Exam 50%

During the course, you are expected to:

- Identify and research a particular aspect of art and design
 - Carry out relevant exploration of media, materials, techniques and appropriate processes
 - Document and evaluate ideas and concepts against intentions as the work progresses
 - Develop these into a cohesive final outcome.
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Cambridge IGCSE Music (0410)

We all love and listen to music. Many of us play too, for music lets us escape into a world of imagination and possibility, and take our friends with us. The study of Music at IGCSE will support you in developing instrumental and vocal skills. You will encounter music from many different times and places and use it as the basis for performance, improvisation and composition as well as comment.

Performing amounts to **30%** of the final assessment, which means if you play an instrument or sing, you are already a third of the way there. But if you don't, it's the perfect opportunity to take your love of music seriously and learn how to. With commitment and regular practise, it is possible to reach the standard required within two years.

The next **30%** of the grade goes to composition. If you have ever composed a song, or a piece for piano, or love film music, or dance mixes, here's your chance to learn how to make them yourself. You'll learn notation as well as music technology.

For the remaining **40%** of the grade you will listen to music from around the world. Some of the pieces you study in advance and some you will hear for the first time in the exam.

Studying music helps you develop skills that you can use in whatever else you decide to do, now or in the future:

- Fine motor skills, good posture, vocal production and projection
 - Memory, non-verbal communication, spatial awareness
 - Appreciation of and engagement with what you hear
 - Sensitive, analytical and critical response to works of art
 - Capacity to express ideas, thoughts and feelings through sound
 - Knowledge and understanding of traditions from many cultures across the world and down the ages
 - Sense of achievement gained from playing music with and for others, and from hearing others play music with and for you.
 - Document and evaluate ideas and concepts against intentions as the work progresses
 - Develop these into a cohesive final outcome.
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Cambridge IGCSE French (0520)

The French IGCSE course aims:

- To develop the ability to communicate in French
- To form a sound base for further study, work and leisure
- To offer insight into French speaking culture
- To encourage positive attitudes to foreign language learning and to speakers of foreign languages

Topics covered

The IGCSE course further develops the knowledge, skills and understanding acquired in Key Stage 3.

The following areas are covered:

- Everyday activities (Home life and school; food, health and fitness)
- Personal and social life (Self, family and relationships; holidays and special occasions)
- The world around us (Hometown and local area; natural and made environment; people, places and customs)
- The world of work (Continuing education; careers and employment; language and communication in the workplace)
- The International world (Tourism at home and abroad; life in other countries and communities; world events and issues)

Method of Assessment

Paper 1 Listening (25%) Paper 2 Reading (25%),
Paper 3 Speaking (25%) Paper 4 Writing (25%)

The Oral component is carried out and assessed by the class teacher.

Career opportunities

For those interested in using French in the future, opportunities for further study is available through IB French courses in Years 12 and 13. The ability to speak a modern language is becoming more valuable in all areas of working life (Banking, Business, Law, Foreign Civil Service, Marketing, Public Relations, Journalism, Media and the Arts, International Organisations and Leisure and tourism). If you have a knowledge of French you are in a very strong position in a competitive job market.

Cambridge IGCSE Spanish (0530)

The Spanish IGCSE course aims:

- To develop the ability to communicate in Spanish
- To form a sound base for further study, work and leisure
- To offer insight into Spanish speaking culture
- To encourage positive attitudes to foreign language learning and to speakers of foreign languages

Topics covered

The IGCSE course further develops the knowledge, skills and understanding acquired in Key Stage 3.

The following areas are covered:

- Everyday activities (Home life and school; food, health and fitness)
- Personal and social life (Self, family and relationships; holidays and special occasions)
- The world around us (Hometown and local area; natural and made environment; people, places and customs)
- The world of work (Continuing education; careers and employment; language and communication in the workplace)
- The International world (Tourism at home and abroad; life in other countries and communities; world events and issues)

Method of Assessment

**Paper 1 Listening (25%) Paper 2 Reading (25%),
Paper 3 Speaking (25%) Paper 4 Writing (25%)**

The Oral component is carried out and assessed by the class teacher.

Career opportunities

For those interested in using Spanish in the future, opportunities for further study are available through IB Spanish courses in Years 12/13. The ability to speak a modern language is becoming more valuable in all areas of working life Banking, Business, Law, Foreign Civil service, Marketing, Public Relations, Journalism, Media and the Arts, International Organisations and Leisure and tourism). If you have a knowledge of Spanish you are in a very strong position in a competitive job market.

Cambridge IGCSE German (0525)

The German IGCSE course aims:

- To develop the ability to communicate in German.
- To form a sound base for further study, work and leisure.
- To offer insight into German speaking culture.
- To encourage positive attitudes to foreign language learning and to speakers of foreign languages.

Topics covered

The IGCSE course further develops the knowledge, skills and understanding acquired in Key Stage 3.

The following areas are covered:

- Everyday activities (Home life and school; food, health and fitness)
- Personal and social life (Self, family and relationships; holidays and special occasions)
- The world around us (Hometown and local area; natural and made environment; people, places and customs)
- The world of work (Continuing education; careers and employment; language and communication in the workplace)
- The International world (Tourism at home and abroad; life in other countries and communities; world events and issues)

Method of Assessment

**Paper 1 Listening (25%) Paper 2 Reading (25%),
Paper 3 Speaking (25%) Paper 4 Writing (25%)**

The Oral component is carried out and assessed by the class teacher.

Career opportunities

For those interested in using German in the future, opportunities for further study are available through IB German courses in Years 12/13. The ability to speak a modern language is becoming more valuable in all areas of working life (Banking, Business, Law, Foreign Civil service, Marketing, Public Relations, Journalism, Media and the Arts, International Organisations and Leisure and tourism). If you have a knowledge of German you are in a very strong position in a competitive job market.

Cambridge IGCSE Turkish - First Language (0513)

The Turkish IGCSE Course aims:

- To develop learners' abilities to communicate clearly, accurately and effectively.
- How to employ a wide-ranging vocabulary, use correct grammar, spelling and punctuation, and develop a personal style and an awareness of the audience being addressed.
- To read widely, both for their own enjoyment and in order to develop an appreciation of how writers achieve their effects.

Topics covered

The IGCSE Course further develops the knowledge, skills and understanding acquired in Key Stage 3.

The following areas are covered:

- Reading & comprehension
- Argumentative writing.
- Descriptive writing.
- Creative writing.
- Writing a summary about the text given.

Method of Assessment

Paper 1 Reading (2 hours) 50%

- Q1 - Questions based on Passage 1
- Q2 – A written summary of 200–250 words based on Passage 1 & 2

Paper 2 Writing (2 hours) 50%

- Section 1 – Discussion and Argument (350 – 500 words)
- Section 2 – Description and Narration (350 – 500 words)

Career opportunities

For those interested in using Turkish in the future, opportunities for further study are available through IB Turkish courses in Years 12/13. It is possible to have a bilingual diploma if you complete the course.

Cambridge IGCSE Geography (0460)

“**Geography matters** - the planet will still be here when the politicians are long gone.” – *Ken Grocott*

Geography is important, because it opens our eyes; a landscape is no longer a static feature, but a complex battleground of physical and human interactions. Local is no longer local, but a collision point for the interaction of many 'locals' drawn from a global stage. With technology increasingly drawing the world closer together, it is important that the role of Geography in helping the public in understanding this complex and unpredictable world is championed! (Tony Cassidy)

Topics covered

- Population
- Settlements
- Urbanisation
- Agriculture and Industry
- Leisure and Tourism
- Rivers and Coasts
- Water Scarcity
- Plate tectonic
- Weather and climate
- Global warming
- Sustainable development

Assessment

Paper 1: 1 hour 45 minutes Structured questions

Paper 2: 1 hour 30 minutes Skills and data analysis

Coursework

Career Opportunities

In all areas of work, the skills learnt during the IGCSE course will be of benefit either directly or indirectly and for many jobs, Geography can be a real asset. These include the following: Actuarial Science, Agriculture and Forestry, Armed Services, Architecture, Civil Aviation, Civil Engineering, Climatology, Nature Conservancy, Remote-Sensing Analysis, Surveying, Travel Agency & Tourism, Sales and Marketing, Transport, Town Planning. Naturally IGCSE Geography leads directly into further studies of Geography at IB and University.

Cambridge IGCSE History (0470)

“Who controls the past controls the future: who controls the present controls the past.” -
George Orwell

We believe that studying History provides students with the skills to explore and contextualise their own identities. To this end, we investigate a wide range of international histories targeting the story of the human past at individual, societal and global scales. In addition, by focusing on the skills used in the construction of history, we hope to develop a critical spirit in our students making them more confident, informed and tolerant of others. Finally, by aiming high in history we strive to challenge students' perceptions of the world in order to create the type of thinking individual sought by universities worldwide.

Topics Covered

- Treaty of Versailles
- League of Nations
- Causes of the Second World War
- The Cold War: Origins; Korea; Cuban Missile Crisis; Vietnam
- Eastern Europe and the Cold war
- Saddam Hussein, Iranian Revolution and the First Gulf War
- Students also take a depth study on Russian history 1905-1953

Assessment

Paper 1: 2 hours Structured questions

Paper 2: 2 hours Sources analysis

Coursework

Career Opportunities

A qualification in History equips you with a multitude of transferable skills many employers value. Among the jobs you can consider are: Advertising Executive, Analyst, Archaeologist, Broadcaster, Civil and Diplomatic Civil Servant, Computer Game Designer, Consultant, Editor, Information Specialist, Intelligence Agent, Journalist, Lawyer, Lobbyist, Personnel Manager, Politician, Researcher, Teacher . . . the list is almost endless.

Cambridge IGCSE Economics (0455)

“Wealth is not without its advantages and the case to the contrary, although it has often been made, has never proved widely persuasive.” - *John Kenneth Galbraith*

We believe that Economics teaches students about the consequences of managing future-oriented choice. Learners study the economics of developed and developing nations and how these interrelate. They also learn to handle simple data and undertake economic analysis, evaluate information and discriminate between facts and value judgments.

Topics Covered

- Allocation of resources
- The market
- The individual
- The firm
- Role of government
- Economic indicators
- Developed and developing countries
- International economics

Assessment

Paper 1: 45 minutes Multiple Choice

Paper 2: 2 hours 15 minutes Structured questions

Career Opportunities

Economics graduates are employed in a range of posts which may, or may not, be related to the discipline they studied. They work in Manufacturing, Transport, Communications, Banking, Insurance, Investment and Retailing Industries, as well as in Government Agencies, Consulting and Charitable Organisations. In all these settings, employers value economics graduates' understanding of decision-making, their research and analytical skills, and their experience of viewing problems in their national and international context.

Cambridge IGCSE Business Studies (0450)

“Without customers, you don’t have a business. You have a hobby.” – *Don Peppers & Martha Rogers, Return on Customer*

We believe that an understanding of business issues equips students to leave formal education and enter the world of work. Studying Business at BISI also helps develop a range of communication skills required by many of today’s employers. We also explore the central issues dictating success and failure in business helping to build key market analysis skills. In addition, students will be exposed to business insights from guest speakers from a range of industries. Moreover, studying Business in Key Stage 4 imparts the foundational business knowledge and understanding required for further study in this subject.

Topics Covered

- Understanding business activity
- People in business
- Operations Management
- Financial information and financial decisions
- Marketing
- External influences on business activity

Assessment

Paper 1: 1 hour 30 minutes Structured questions

Paper 2: 1 hour 30 minutes Structured questions based on a case study

Career Opportunities

There can be few careers where knowledge of the business would not be useful. Entrepreneurs benefit from having a solid grounding in business for their start-ups to be successful. All organisations, from schools to law firms need to recruit, train and develop good staff. Journalists may report on business. Charities rely heavily on marketing and, like public sector organisations, need to deliver value for money and manage their finances effectively. Moreover, many careers that do not necessarily require business skills and knowledge at the outset have the potential to develop into management roles where this will become important. Teaching, Nursing, Social Work and Law are just a few of the professions in which management plays an important role.

Cambridge IGCSE Sociology (0495)

"Society is an insane asylum ran by the inmates." *Erving Goffman*

We believe that the study of Sociology develops an understanding into how society functions. Sociology students examine how humans interact with each other at group, community and organisational levels. Sociology also reveals how human behaviour is shaped by age, sex, class and race and influenced by politics, religion and education. Lastly, we hold that Sociology forces students to deploy the conceptual tools and methodologies necessary for understanding the world we live in and forms a valuable introduction required for further study into the human sciences.

Topics Covered

- Theory & Methods
- Culture, Identity & Socialisation
- Social Inequality
- Crime, Deviance and Social Control Media

Assessment

Paper 1: 2 hours Structured questions

Paper 2: 1 hour 45 minutes Structured questions

Career Opportunities

Sociologists work in a variety of corporate settings as consultants, developers, and CEOs. Corporate sociologists conduct training programmes and conduct research for businesses and organisations. They advise Human Resources departments and get involved in industrial relations matters. Sociologists also work in research departments and participate in organisational analysis and development. They conduct research and strategic planning in Public Relations and Marketing. Additionally, sociologists can become teachers in schools and universities. At academic level, sociologists conduct research for multinational corporations, factories, banks, retail stores, government agencies, hospitals, restaurants, nursing homes, and countless other settings. Their findings play a significant role in the way public and private institutions carry out their business.

Cambridge IGCSE Physical Education (0413)

The course is 50% Practical, 50% External Examination

50% of their grade is from practical performance in 4 different activities.

Students must choose the 4 physical activities they think they are strongest at, these activities are filmed and a grade is given out of 25 for each activity.

A range of activities and a mix of classroom and practical based lessons are used to teach the 4 theoretical topic areas, which form the content of the external examination. This exam is out of 100 marks. These 4 areas are:

- 1. Anatomy and Physiology** – the study of different muscles/ bones, the skeleton, the respiratory system and the effect exercise has on our bodies.
- 2. Health, fitness and training** - the study of different components of fitness and different types of training. This unit also looks at how to maximize our training so as to make improvements.
- 3. Skill acquisition and psychology** –the study of how people acquire new skills and how different personalities / levels of performers need different strategies to improve their performance.
- 4. Social cultural and ethical issues** – the study of how media, sponsorship and technology influence sport. This section also looks at performance enhancing drugs and injuries.

The teaching of this course is mostly practical and therefore suits students who are physically able, active and enjoy learning kinesthetically.

If anyone would like any more information on the IGCE PE course, please do not hesitate to contact Josh Kinnear.

Option for Further study and Career Opportunities:

IB Sports and Exercise Health Science in KS5.

Cambridge IGCSE Computer Science (0478)

The course aims to develop:

- Computational thinking, that is thinking about what can be computed and how, and includes consideration of the data required.
- Understanding of the main principles of solving problems by using computers.
- Understanding that every computer system is made up of subsystems, which in turn consist of further sub-systems.
- Understanding of the component parts of computer systems and how they interrelate, including software, data, hardware, communications and people.
- Skills necessary to apply understanding to solve computer-based problems using a high-level programming language.

Section 1 Theory of computer science (Data representation, Communication and Internet technologies, Hardware and software, Security & Ethics).

Section 2 Practical problem-solving and programming (Algorithm design and problem-solving, Programming & Databases)

Assessment (Externally assessed)

Paper 1 (60%) – Theory (75 Marks) 1 hour 45 minutes

1. Short-answer and structured questions
2. Questions will be based on section 1 of the subject content
3. All questions are compulsory
4. No calculators are permitted

Paper 2 (40%) – Practical problem (50 Marks) 1 hour 45 minutes

1. Short-answer and structured questions
2. Questions will be based on section 2 of the subject content
3. All questions are compulsory 20 marks are from questions set on the pre-release material
4. No calculators are permitted

Studying Cambridge IGCSE Computer Science helps learners appreciate current and emerging computing technologies, the benefits of their use and recognise their potential risks. It provides an ideal foundation for progression to Cambridge International AS & A Level and is valuable for other areas of study and everyday life.

Cambridge IGCSE Biology (0610)

Cambridge IGCSE Science qualifications are accepted by universities and employers as proof of real ability and knowledge.

The IGCSE Biology course combines both theoretical and laboratory work to give firm foundations in the Science of living things.

Topics covered include: classification, cells organization of organisms, biological molecules, enzymes, plant nutrition, human nutrition, transport in plants, transport in animals, diseases and immunity, gas exchange, respiration, excretion in humans, co- ordination and response, drugs, reproduction, inheritance, variation and selection, organisms and environment, biotechnology and genetic engineering, human influences on ecosystems.

As well as a subject focus, the biology syllabus enables students to:

- better understand the technological world, with an informed interest in scientific matters.
 - recognise the usefulness (and limitations) of scientific method, and how to apply this to other disciplines and in everyday life.
 - develop relevant attitudes, such as a concern for accuracy and precision, objectivity, integrity, enquiry, initiative and inventiveness
 - further interest in, and care for, the environment
 - better understand the influence and limitations placed on scientific study by society, economy, technology, ethics, the community and the environment
 - develop an understanding of the scientific skills necessary for applying the scientific method.
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Cambridge IGCSE Chemistry (0620)

Cambridge IGCSE Science qualifications are accepted by universities and employers as proof of real ability and knowledge.

The IGCSE Chemistry course combines both theoretical and laboratory work to give firm foundations in the Science of matter and materials.

Topics studied include: the particulate nature of matter, experimental techniques, atoms, elements and compounds, stoichiometry, electricity and chemistry, chemical energetics, chemical reactions, acids bases and salts, the periodic table, metals, air and water, sulfur, carbonates, organic chemistry.

As well as a subject focus, the chemistry syllabus enables students to:

- better understand the technological world in which they live, and take an informed interest in science and scientific developments
 - learn about the basic principles of Chemistry through a mix of theoretical and practical studies
 - develop an understanding of the scientific skills essential for further study
 - learn how science is studied and practised, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment.
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Cambridge IGCSE Physics (0625)

Cambridge IGCSE Science qualifications are accepted by universities and employers as proof of real ability and knowledge.

The IGCSE Physics course combines both theoretical and laboratory work to give firm foundations in the Science of matter, energy and their interactions.

Topics covered include:

length and time, motion, mass and weight, density, forces, momentum, energy, work and power pressure, thermal Physics, property of waves including light and sound, electricity and magnetism, atomic Physics.

Successful candidates gain lifelong skills, including:

- confidence in a technological world, with an informed interest in scientific matters
 - an understanding of how scientific theories and methods have developed, and continue to develop, as a result of groups and individuals working together
 - an understanding that the study and practice of science are affected and limited by social, economic, technological, ethical and cultural factors
 - an awareness that the application of science in everyday life may be both helpful and harmful to the individual, the community and the environment
 - knowledge that science overcomes national boundaries and that the language of science, used correctly and thoroughly, is universal
 - an understanding of the usefulness (and limitations) of scientific method, and its application in other subjects and in everyday life
 - a concern for accuracy and precision
 - improved awareness of the importance of objectivity, integrity, enquiry, initiative and inventiveness.
-