



RAINBOW

INTERNATIONAL SCHOOL UGANDA

IGCSE

OPTIONS BOOKLET

2025 – 2027





Dear Year Nine Pupils and Parents

You will soon be making some important decisions in your education, and beginning to plan for your future career. The choices you make now are very important, as they will form the basis of your future career options, so take the time to ask questions and gather as much information as you can to help you make the best decision on what to focus on subject wise in years 10 & 11.

In addition to the compulsory subjects that you will study we also recommend that, at this point in your education, you ensure that your subject choices give you as much flexibility as possible for the future. It is important, in a rapidly changing world, that your curriculum reflects breadth as well as depth. In general, we tend to be more successful doing things we enjoy so think about this when making choices.

Choose your optional subjects because you think you'll be good at them, and that they will interest you. It is also important that you don't choose subjects because you want to be with a best friend or an inspirational teacher – your friendship may change or that teacher may leave. Discuss your choices with your friends but do not be influenced too much by what they may advise you to take. Your parents can give you some sound advice but remember you are the one who will be studying these subjects and sitting the exams in the future so it is important that it is your choice.

Finally talk to your teachers, they can give you some great advice based on your performance so far in a subject and don't forget your tutor, Head of Year and the secondary SLT can help guide your decision making.

Mr. D Jones
Principal

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Subject Choices

CAMBRIDGE
IGCSE
INTERNATIONAL GENERAL CERTIFICATE
OF SECONDARY EDUCATION

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INTRODUCTION

During Years 10 & 11 (Key Stage 4), students at Rainbow International School follow a curriculum which offers breadth and balance, leading to IGCSE certification from Cambridge Assessment International Education (CAIE), the world's largest provider of international education programmes and qualifications.

All students study a core curriculum, which includes compulsory external examination courses as well as non-examination subjects, and are given a selection of optional examination courses in a variety of subjects to choose from. Students are encouraged to maintain a broad and balanced curriculum, bearing in mind their pathway after the completion of their IGCSE examinations.

Each IGCSE course will be examined at the end of Year 11. These courses will help students to develop important skills and knowledge and are assessed through a mixture of examination, practical and coursework forms of assessment.

Please see <https://www.cambridgeinternational.org> for more information.

Compulsory (non-examination)

- 01** Physical Education (PE)
Personal, Social & Health Education (PSHE)

Compulsory Core Subjects (with exams)

- 02** English Language, English Literature
Mathematics, French or German
One science from: Biology, Chemistry, Physics

Optional Subjects (with exams)

- 03** Art & Design, Biology, Business Studies,
Chemistry, Computer Science, Drama, Economics,
Food & Nutrition, Geography, History, ICT, Music
PE (IGCSE), Physics, Sociology

CAMBRIDGE
IGCSE

INTERNATIONAL GENERAL CERTIFICATE
OF SECONDARY EDUCATION



Please note

Students should ensure breadth and choose at least one subject from the Arts and one subject from Humanities; they must choose at least one science but can choose all three;

Once initial choices have been selected, Option Blocks will be created and students will have to make another choice in which they choose one subject from each block;

While we try to ensure that students will be able to choose their first choices, this is not always possible, and students may find that once the final subject timetable is published, they are unable to select the exact combination of subjects originally listed;

Some subjects may not be available if there are insufficient students who have selected a subject.

ART & DESIGN

Overview

Cambridge IGCSE Art & Design is crafted to provide students with a diverse range of artistic opportunities. The curriculum encourages individual expression, allowing candidates to explore various media and approaches. Embracing painting and related media, graphic communication, three-dimensional design, textiles and fashion, and photography, the program offers a comprehensive canvas for artistic exploration.

Assessment

The assessment structure for IGCSE Art & Design consists of two components, ensuring a holistic evaluation of students' artistic abilities.

Component 1: Coursework (50%):

Candidates delve into research, development, and realization of a project within the chosen areas of study. The coursework comprises a portfolio and a final outcome, both externally assessed.

Component 2: Externally Set Assignment (50%):

In response to a starting point set by Cambridge International, candidates undertake an externally set assignment. This component includes supporting studies and a final outcome, crafted during an 8-hour supervised test, also externally assessed.

Assessment objectives

(AOs) guide the evaluation, covering recording, exploration, development, and presentation. The process ensures a comprehensive assessment of candidates' abilities and understanding of visual language.

Benefits to the Student Taking Art and Design:

Enrolling in IGCSE Art & Design offers students numerous benefits.

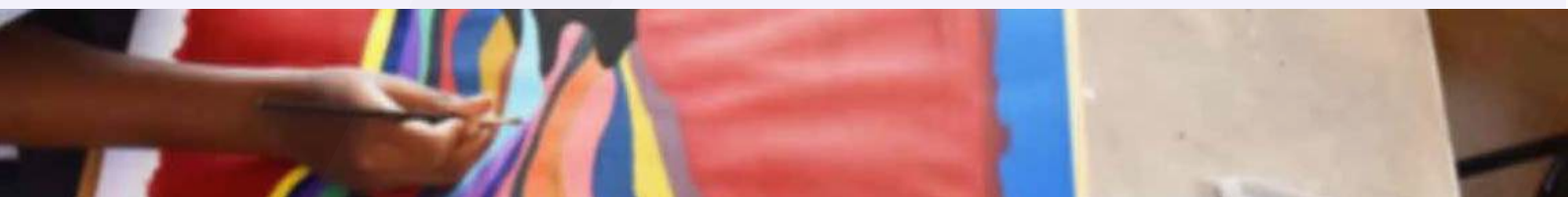
The program nurtures creativity, critical thinking, and technical skills.

By engaging in diverse media and exploring different approaches, students develop a unique artistic voice.

The coursework encourages research, investigation, and the ability to articulate ideas visually, fostering a deep understanding of the creative process.

Additionally, students gain proficiency in selecting resources, materials, and techniques, enhancing their adaptability and resourcefulness.

The holistic approach to assessment prepares students for various career paths and further studies in the arts.



Career Path

IGCSE Art & Design opens doors to a myriad of exciting career paths. Graduates may pursue professions such as:

Visual Artist: Crafting original pieces across diverse media.

Graphic Designer: Creating visual concepts for communication and marketing purposes.

Fashion Designer: Innovating in textiles and fashion, showcasing individual style.

Photographer: Capturing moments and conveying stories through the lens.

3D Designer: Specializing in spatial and three-dimensional design.

Art Educator: Sharing knowledge and inspiring the next generation of artists.

These career paths reflect the versatility and applicability of the skills acquired through IGCSE Art & Design, emphasizing the program's role in shaping well-rounded individuals ready for success in the creative industries.

BUSINESS STUDIES

Why study the subject ?

Cambridge IGCSE Business Studies is accepted by universities and employers as proof of an understanding of business concepts and techniques across a range of different types of businesses.

Learners will be able to understand different forms of business organizations, the environments in which businesses operate and business functions such as marketing, operations and finance and appreciate the role of people in business success.

The examination board is Cambridge Assessment International Education (CAIE) from the United Kingdom. It runs the examination in summer (June/July) and in winter (October/November).

Here at RISU , our main sitting is in summer. The curriculum covers the following aspects.

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

- All candidates take two components, Paper 1 and Paper 2
Paper 1 (1 hour 30 minutes)
- Short Answer and Data Response
50% (80 marks)
Four questions requiring a mixture of short answers and structured data responses.
- Candidates answer all questions
Externally assessed
Paper 2 (1 hour 30 minutes)
Case Study 50% (80 marks)
- Four questions based on a case study,
Provided as an insert with the paper.
Candidates answer all questions
Externally assessed



How to succeed in the Subject

Studying Business is about decision making in a business context. Learners will build up a wealth of knowledge about businesses to aid decision-making. They will be expected to apply this knowledge to given data, case studies and real world examples. Simply having knowledge is not enough, however, and it is the skills of analysis and evaluation, which we all use to make decisions, that lie at the heart of the Cambridge International IGCSE Business syllabus.

A photograph of three students in a biology laboratory. A female student in the foreground is wearing safety goggles and a light blue lab coat, looking down at a petri dish. Behind her, a male student is also wearing safety goggles and a lab coat, working with a petri dish. To the right, another female student is wearing safety goggles and a lab coat, holding a test tube. The background shows other students and laboratory equipment.

BIOLOGY

The subject equips learners with many skills including analytical thinking, communication, laboratory and mathematical problem solving techniques.

Career opportunities are in Medicine, Biotechnology, Dentistry, Veterinary Medicine, Biochemistry, Environmental Science, Forensic Science, Pharmacy, Research, Education and Sports science among others.

Prospective learners should have at least Level 7c at Key Stage 3 in Science, Mathematics and English Language.



Assessment

Extension :

Paper 2 – Multiple Choice Questions

Paper 4 – Structured Questions

Paper 6 – Alternative to Practical

Extension is graded from A* (Highest) to G (Lowest)

Core :

Paper 1 – Multiple Choice Questions

Paper 3 – Structured Questions

Paper 6 – Alternative to Practical

Extension is graded from C (Highest) to G (Lowest)



CHEMISTRY

The subject equips learners with many skills including analytical thinking, communication, laboratory and mathematical problem solving techniques.

Career opportunities are in Medicine, Biomedical Sciences, Dentistry, Pharmacy, Biochemistry, Aerospace Engineering, Civil Engineering, Chemical Engineering, Petroleum Engineering, Pharmacology, Research, Education and Food Science Technology among others.



Assessment



Extension :

Paper 2 - Multiple Choice Questions

Paper 4 - Structured Questions

Paper 6 - Alternative to Practical

Extension is graded from A* (Highest) to G (Lowest)



Core :

Paper 1 - Multiple Choice Questions

Paper 3 - Structured Questions

Paper 6 - Alternative to Practical

Extension is graded from C (Highest) to G (Lowest)

Java ■
 iOS / Swift ■
 JavaScript ■
 PHP ■
 C++ ■
 Python ■

COMPUTER SCIENCE

Why study the subject ?

Cambridge IGCSE Computer Science enables learners to study the principles and practices of computing and gain confidence in computational thinking and programming.

They learn to program by writing computer code and they develop their understanding of the main principles of problem-solving using computers.

Learners apply their understanding to develop computer based solutions to problems using algorithms and a high level programming language. They also develop a range of technical skills, as well as the ability to test effectively and to evaluate computing solutions. They also get to appreciate current and emerging computing technologies and the benefits of their use.

WHAT DOES IT TAKE TO BE SUCCESSFUL IN THIS SUBJECT?

In order to succeed in IGCSE computer science, we recommend that students set aside five to six hours a week to study. It is important that students regularly keep up with their revision and the course activities in a timely manner. Do not wait to revise at the end, rather, revise regularly so that you don't fall behind at any time.

Assessment

Paper 1 (1 hour 45 minutes) Theory - 60 % : 75 marks

Short -answer and structured questions asked from section 1 of the subject content. No Calculators permitted.

Paper 2 (1 hour 45 minutes) Problem-solving and programming - 40% : 50 marks

Short-answer and structured questions asked from section 1 of the subject content
 No Calculators permitted.

Career Opportunities

Applications developer, Cybersecurity analyst, Data scientist, Data analyst, Forensic computer analyst, Game developer, Machine learning engineer, Software engineer, Systems analyst, Web designer/developer, Cloud Network engineer, Nanotechnologist.

DRAMA

*“What Is Life But
Drama With The Dull
Bits Cut Out ”*

By Alfred Hitchcock



Cambridge IGCSE Drama encourages learners to be:

Cambridge IGCSE Drama provides opportunities for learners to develop practical skills in performance, both as an individual and within a group. Learners will understand the artistic choices made by actors, directors and designers in presenting performances for an audience. They will also learn about theatrical styles and genres. Learners will explore how to develop their own ideas in creating original drama.



CONFIDENT

Confident, developing practical skills to deliver dramatic performance for an audience.



RESPONSIBLE

Developing shared responsibility working with others and understanding the power of drama to engage, influence and persuade.



REFLECTIVE

Engaging with performance processes, and using them to inform future practice.



INNOVATIVE

Creating original dramatic work and formulating imaginative responses to existing repertoire.

DRAMA CTD

Why study the subject ?

A student who chooses to do drama needs to be ready to create time to work alone even beyond the timetable for the subject. Reading scripts to memorise lines, analysing/assessing them and being excited to perform them as coursework are things to be prepared for. Creativity is very important and the ability to justify why you make any creative choices are needed for you to enjoy the drama IGCSE course because this will make you pass both your practicals and written assessments.

What can Drama lead you to ?

Television and Radio Host – Author/Writer (novels, screenplays, copywriter etc)
– Actor/Actress (Theatre, Film, Voice Artist) – Director, Producer – Drama Therapist
– Cinematographer, Editor – Audio Producer/Director – Community/Social Dramaturgy
– Lighting Technician – Makeup Artist – Online Content Creator (Youtube, Pod-casts etc) – University Theatre/Drama Lecturer/Teacher – Craftsman (set constructor, prop master) – Fashion Designer (Costumer) – Makeup Artist (special effects for stage and film, beauty makeup)

Assessment overview

All candidates take two components. Candidates will be eligible for grades A* to G.

Component 1 (2 hours 30 minutes)
Written examination – 40 % – 80 Marks

Candidates answer:

- **All** questions in Section A
- **Two** questions in Section B (one compulsory question and one question from a choice of two)
- **Both** questions in Section C.

Externally assessed

Component 2 (coursework) – 60% : 120 marks

Candidates submit three pieces of practical work:

- Individual performance based on an extract from a play.
- Group performance based on an extract from a play
- Group performance based on an original devised piece.

Internally assessed and externally moderated.

ECONOMICS

Why study the subject ?

Cambridge IGCSE Economics is accepted by universities and employers as proof of knowledge and understanding of economics. Successful Cambridge IGCSE Economics candidates gain lifelong skills, they gain crucial understanding of economic theory, terminology and principles, giving them the ability to take a greater part in decision-making processes in everyday life. Finally they have an excellent foundation for advanced study in economics.

What students need to do

The most important undertaking for any economics student is that observing the connections between economic studies and real-life events reinforces one's love for the subject. The best advice is: "Read the news regularly". Developing a news-reading habit, will be useful to anyone studying economics for IGCSE, because they'll have more examples to use when answering long, structured essay questions.

However, having informed ideas does not guarantee exam success. It is therefore equally important to effectively and strategically present those ideas – and the only way to have this is to practise writing essays and doing multiple choice questions.

Try and to do at least eight years' worth of past papers, this is over the two year program and this really boosts one's understanding in the subject and by looking at the marking scheme, you familiarize yourself with the approaches and answers that the exam board is looking for.

- All candidates take two components, Paper 1 and Paper 2
Paper 1 (1 hour 30 minutes)
- Paper 1 (45 minutes Multiple Choice 30% - 30 marks)
Candidates answer all 30 questions
Externally assessed
- Paper 2 (2 hours 15 minutes - Structured Questions 70% -90 marks)
Candidates answer one compulsory question and three questions from a choice of four. Externally assessed

Assessment

The curriculum covers the following aspects.

1. The basic economic problem
2. The allocation of resources
3. Government and the macro economy
4. Economic development
5. International trade and globalization



ENGLISH LITERATURE

Why study the subject ?

Over the two year course you will get to read, interpret and evaluate texts through the study of literature in English. You will develop an understanding of literal meaning, relevant contexts and the deeper themes or attitudes that may be expressed.

Through the study of the texts, you will learn to recognize and appreciate the ways in which writers use English to achieve a range of effects, and you will be able to present an informed, personal response to the material studied.

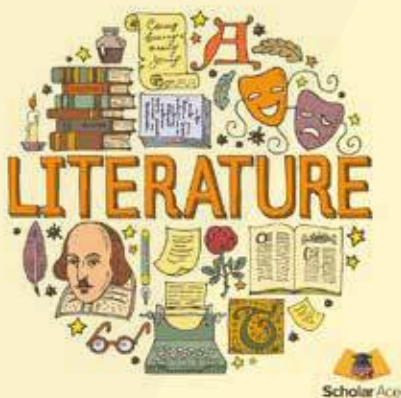
On your journey through the course, as you explore wider and universal issues, you will get a better understanding of yourself and of the world around you.

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*The poems to our ears,
The stories we tell our peers,
Some that gave us fears,
While most of them endear,
To reveal the joys to our ears,
Blowing away old tears,
Some of them move our gears,
As the future says, 'Lit-is-here!'*

Poem by Year 10 Class

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"Literature adds to reality, it does not simply describe it. It enriches the necessary competencies that daily life requires and provides; and in this respect, it irrigates the deserts that our lives have already become."

Quote by C.S. Lewis

- Paper 1 : Poetry and Prose (Compulsory) – 50 Marks
Two questions on two texts : One poetry and one prose.
Externally Assessed
- Paper 2 : Drama (50 marks)
Two questions on two texts.
Externally Assessed

Assessment

Secret to success ?

The secret lies in enjoyment of reading and looking beyond the surface meaning. There is a lot of discussion and you will need to be engaged, asking questions, expressing your opinions while keeping an open mind so you can appreciate the different perspectives shared. This means you have to be prepared for every lesson, having read the text so you can contribute to the discussion. Taking notes as the discussion is going on will help you to gather ideas that you can refer to when writing your essays.

ENGLISH AS A SECOND LANGUAGE

Why study the subject ?

Cambridge IGCSE English as a Second Language program helps students achieve the level of English proficiency they need to meet the same academic standards as their peers. It offers students the opportunity to develop practical communication skills in listening, speaking, reading and writing. Students will listen to a range of spoken material, including talks and conversations, in order to develop listening skills. In addition, the IGCSE English as a second language program, forms a solid foundation for the skills required for further study or employment through the medium of English. It also develops students' awareness of the nature of language and language-learning skills.

What to do to succeed ?

Understanding key concepts taught, improving their reading, listening and speaking skills by reading all kinds of genres and speaking regularly in and out of classroom situations.

Careers

Foreign Service Officer, International Corporate Trainer, ESL Department Director, Linguist, Private ESL Instructor, Teaching Overseas Translator



ENGLISH AS A SECOND LANGUAGE

Assessment

Paper 1	Paper 2	Paper 3
Reading and Writing 60 %	Listening 40%	Oral Exam Total Mark - 40



FIRST LANGUAGE ENGLISH

Why study the subject ?

Cambridge IGCSE First Language English allows learners to:

Develop the ability to communicate clearly, accurately and effectively when speaking and writing.

Learn how to use a wide range of vocabulary, and the correct grammar, spelling and punctuation

Develop a personal style and an awareness of the audience being addressed.

Learners are also encouraged to read widely, both for their own enjoyment and to further their awareness of the ways in which English can be used.

Cambridge IGCSE First Language English also develops more general analysis and communication skills such as inference, and the ability to order facts and present opinions effectively.

Assessment

● Paper 1 : Reading

50% and is marked out of 80 marks
Structured and Extended writing questions. Questions will be based on three reading tests.
Externally assessed.

● Paper 2 : Directed Writing and Composition

50% and is marked out of 80. Extended writing question and composition task.
Externally assessed.

“
The language of the world,
With beauty and divinity for anyone reading,
Everyone that speaks the word,
Sometimes it may seem like a blur.
But it has deep meanings within,
English will take you far,
Something everyone must learn , “
It will give you something to earn

Poem by Year 10 Class

!

Secret to success ?

Read widely both for enjoyment and to further your awareness of ways in which the language can be used for specific purposes. This exposure will help you to appreciate the versatility of language. In addition, by reading widely, you will sharpen your more general analysis and communication skills such as inference, and the ability to order facts and present opinions effectively.



FOREIGN LANGUAGE FRENCH

Why study French ?

Foreign language skills are often the deciding factor when candidates are selected in different job fields. Foreign languages, especially French, pay off in surprising ways. It is not just appropriate for students entering a field related to linguistics or international studies; it is a key skill that opens myriad doors to the future. French knowledge has a huge competitive advantage. It opens more interesting job opportunities.

There are specific careers French leads to but it is just relevant, appropriate to all careers. A foreign language like French is a gateway to the rest of the world.

Careers

Political Leader

UN staff, Diplomats: They need to speak multiple languages.

Interpreter, Translator, Proofreader, Editor (websites, books, news articles, etc.)

University Professor, Teacher, Literary critic, etc.

NGOs staff, Civil servants.

Lawyer, Engineer, Doctor: French skills can expand jobs' opportunities in many ways.

There are also opportunities in the myriad of French companies (Total Energies, BPCE, EDF, Dior, Air France-KLM, etc.).

- Listening, appr. 50 minutes (25%)
- Reading, 1 hour (25%)
- Speaking, 10 min (25%)
- Writing, 1 hour (25%)

Assessment



FOREIGN LANGUAGE GERMAN

What it takes to succeed

To succeed in a language must consistently revise new vocabulary. You need to put your skills into practice whenever there is a chance (in and outside of the classroom) and accept that it is OK to make mistakes. Take advantage of the internet: watch and listen to programs in your target language.

Careers include German Teacher or Tutor, German Translator/Interpreter, Travel and Tourism, Journalism etc. BMW, Volkswagen, Bosch, Daimler, Adidas, Allianz, Deutsche Bank, Siemens, SAP, BASF, and Lufthansa are all established around the world. Adding German language skills on your CV can help your career growth in many of these International corporations.

- Listening, appr. 50 Minutes (25%)
- Reading, 1 hour (25%)
- Speaking, 10 min (25%)
- Writing, 1 hour (25%)

Assessment

Why study the subject ?

1. The aim is to develop an ability to use the language effectively for practical communication. Therefore, speaking, listening, reading and writing are equally important and practised.
2. There are hundreds of universities in Germany that have free or very low-fee tuition programs available for international students. German has the largest number of native speakers in the European Union. Germans are world leaders in engineering.
3. Germany is the world's second- largest exporter. The German economy ranks number one in Europe and number four worldwide. Its economy is comparable to that of all the world's Spanish-speaking countries combined. Germany is home to numerous international corporations.



INNOVATIVE GERMAN UNIVERSITIES

German universities of applied sciences and technical universities offer practice and research-based programmes, making students graduate employable with innovative ideas.



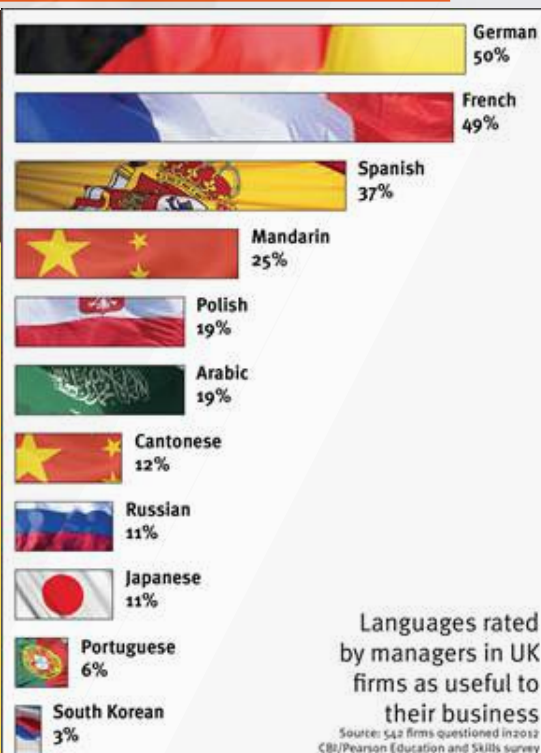
WORLD-CLASS EDUCATION AT NO OR LOW COST!

Most German public universities offer international-level education by charging no tuition fees, and some charge just for the cost of administration. The only country in the world with this exceptional offer to all nationals, for post-secondary level education



THRIVING JOB MARKET FOR NEW GRADUATES

A vocational qualification or a bachelor's degree makes one qualified for jobs in Germany. Students graduate not just skilled in Germany but multilingual and flexible with exposure to a multi-cultural society.



FOOD AND NUTRITION

Why study the subject ?

Food and Nutrition IGCSE provides an excellent grounding in practical food skills and nutrition that you will use every day, no matter what career choice.

Students will in addition develop key life skills: effective planning, timekeeping, meeting deadlines, and making healthy food choices. Careers are plentiful in such a huge and diverse industry and include jobs in Dietetics and Nutrition, Public health, food manufacture and Product development. The course could also lead to a whole host of careers in the hospitality industry.

Students will need to apply skills in relation to planning, preparation, cooking, and presentation of food and application of nutrition related to the chosen tasks.

Students will prepare, cook and present a menu of 5 dishes within 2 hours and 30 minutes. In theory, they will apply knowledge on nutritional qualities of food with current healthy eating guidelines and how they apply to different Target groups, food science, meal planning, basic proportions and composition of food

To achieve an A grade, a candidate must show

- Critical awareness and intelligent understanding of the scientific and practical concepts.
- Excellent ability to select appropriate dishes and organize time
- A good variety of skills needed for preparation

To achieve a C grade, a candidate must show

- Some critical awareness and understanding of the scientific and practical concepts
- Reasonable ability to select appropriate dishes and organize time.
- Some skills needed for preparation.

To achieve an F grade, a candidate must show..

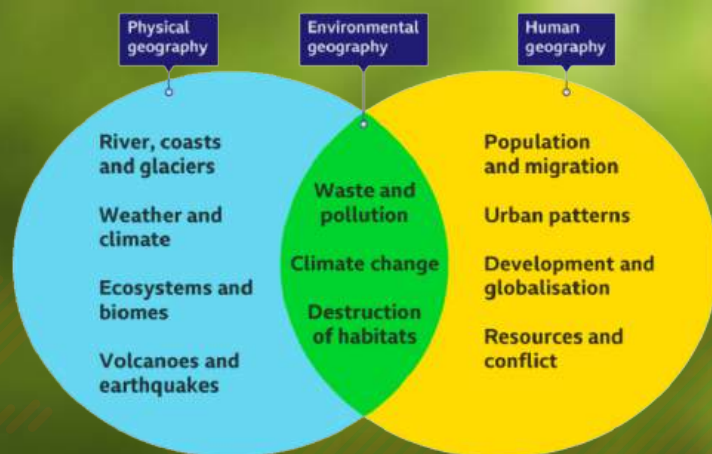
- Some theoretical and practical understanding of the concepts in the syllabus
- Some ability to select appropriate dishes
- Some knowledge of skills needed for preparation.

Assessment

- Paper 1 : 2 Hours
(Theory 50% of the grade)
- Paper 2 : 2 Hours 30 Minutes
(Practical 50% of the grade)



GEOGRAPHY



Why study the subject ?

To develop lifelong skills, including:

- An understanding of the processes which affect physical and human environments
- An understanding of location on a local, regional and global scale
- An understanding of how communities around the world are affected and constrained by different environments.
- You will also acquire a range of skills including; data collection, presentation and analysis, illustration, annotating, essay writing, evaluation, interpretation of maps, and giving formal oral presentations.

Career Opportunities

Geography offers a range of career opportunities among which include: Urban Planning, Cartography, GIS and remote sensing, Climatologist, Emergency management, Demography, Librarian/Information Science, Teaching, Tourists management, Surveying, Pilot.

Assessment overview.

All candidates take three components. Candidates will be eligible for grades A* to G.
Candidate will take papers 1, 2 and 4.

Paper	Overview	Time	Weight
Paper 1 Physical Geography. 75marks	Structured questions containing short answer and extended response items. Some items are based on source material. Externally assessed.	1 hour 45 minutes.	36%
Paper 2 Human Geography. 75 marks	Structured questions containing short answer and extended response items. Some items are based on source material. Externally assessed.	1 hour 45 minutes.	36%
Paper 4 Geographical Investigations. 60 marks	Two compulsory questions containing short answer and extended response items. Some items are based on source material. Externally assessed.	1 hour 30 minutes	28%

HISTORY



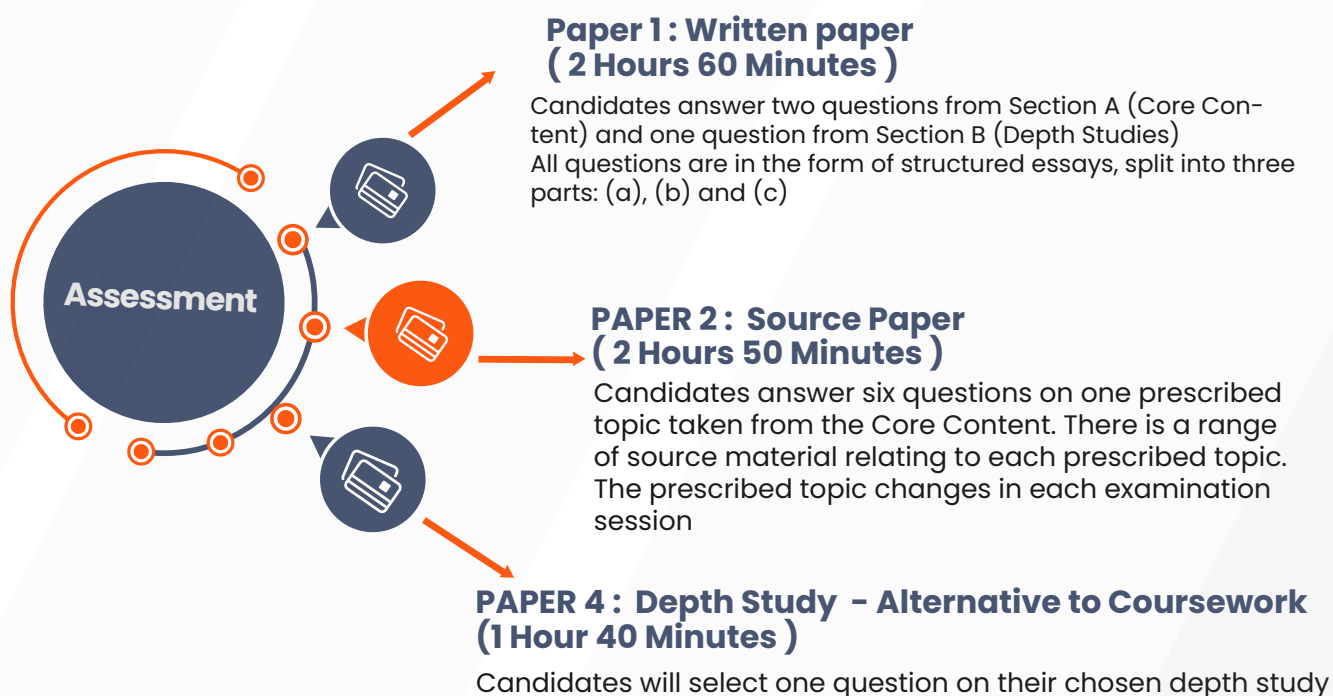
Why study the subject ?

Cambridge IGCSE History offers the opportunity to study world history from the nineteenth century to the beginning of the twenty-first century. It encourages learners to raise questions and to develop and deploy historical skills, knowledge and understanding in order to provide historical explanations. Learners will explore history from a diversity of perspectives, including social, economical, cultural and political, and are given the opportunity to:

- Develop an interest in and enthusiasm for learning about and understanding the past
- Explore historical concepts such as cause and consequence, change and continuity, and similarity and difference
- Appreciate historical evidence and how to use it gain a greater understanding of international issues and inter- relationships
- Learn how to present clear, logical arguments.

Being passionate about what happened in the past will make your History lessons enjoyable. However in order to excel in your examinations you will need to develop essay writing skills and a critical eye to read in-between the lines. In general a positive attitude towards learning and a strong desire to excel will be invaluable for your success.

All candidates take three components. All candidates take Paper 1 and Paper 2, and Paper 4 the alternative to coursework





INFORMATION & COMMUNICATION TECHNOLOGY

Why study the subject ?

Cambridge IGCSE Information and Communication Technology encourages learners to develop lifelong skills, including:

1. Understanding and using applications using Information and Communication Technology (ICT) to solve problems.
2. Analyzing, designing, implementing, testing and evaluating ICT systems, ensuring that they are fit for purpose
3. Understanding the implications of technology in society, including social, economic and ethical uses
4. Awareness of the ways ICT can help in home, learning and work environments.

Assessment

COMPONENT (ICT 0417)	WEIGHTING
Paper 1: This is a compulsory paper consisting of multiple-choice, short-answer and structured questions. The questions are set on all sections of the subject content. Each individual question is set within separate contexts of ICT applications in everyday life. 100 marks	40%
Paper 2: Document Production, Data Manipulation and Presentations. 80 Marks	30%
Paper 3: Data Analysis and Website Authoring. 80 marks	30%

What does it take to be successful in ICT

ICT is mainly a practical subject and will always focus on how the acquired knowledge is applied in day to day life. This means that the subject requires the learner to continuously apply the skills acquired during lessons. Being able to work on your own and independently motivate yourself is great, and you'll need that. However, teamwork (collaboration) is also a very vital aspect of the subject.



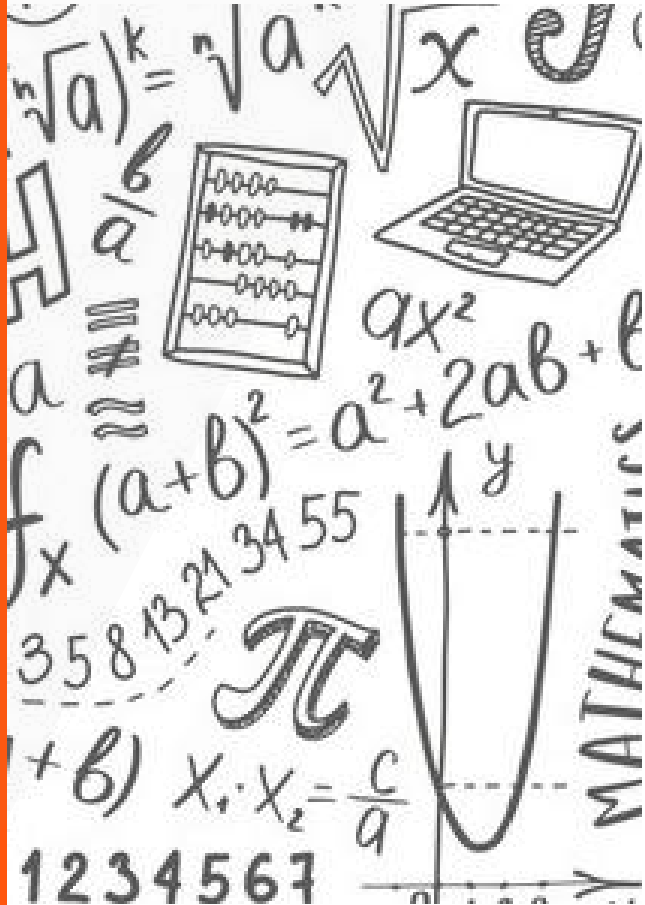
MATHEMATICS

Why is it important to get a good grade in IGCSE Mathematics?

As technology continues to advance, so does Mathematics, increasing its essential role in both every day and corporate life. New mathematical theories are being discovered and developed every day, enabling inventions and scientific discoveries to continue to flourish.

The majority of employers look for at least a grade C in IGCSE Mathematics so your skills in the subject could make a difference the job you get. The majority of University courses also look for at least a grade C in IGCSE Mathematics. This means not getting that minimum grade could limit your chances of enrolling on some courses.

We know from experience that it is impossible to go a day without using Mathematics skills, and a good level of understanding means you can have more control over things like your finances. Finally, by studying Mathematics at IGCSE level you will develop a number of skills such as Problem-solving, Analytical skills and Research skills.



What it takes to succeed

Mathematics requires a great deal of hard work and effort by students in order to be successful. Regular attendance and full involvement in all the tasks and activities are essential. Individual learning and completing homework to a high standard are equally important if the student is to achieve their full potential on the course.

Assessment

There are two levels of IGCSE Mathematics offered at RISU.

Core Maths candidates take two written papers

1. Paper 1 (Core) 50% 1 hour 30 minutes (no calculator)
2. Paper 3 (Core) 50% 1 hour 30 minutes

All **Extended Maths** candidates take two written papers

1. Paper 2 (Extended) 50% 2 hours (no calculator)
2. Paper 4 (Extended) 50% 2 hours

IGCSE Additional Mathematics

In addition to the IGCSE Mathematics, we also offer IGCSE Additional Mathematics. This course reinforces learners' competency, confidence and fluency in their use of techniques, thus strengthening their mathematical understanding and communication skills. Students are given the opportunity to do Additional Mathematics based on their achievement in the End of Year 9 Internal Examination. Those who meet the criteria as decided by the Department are selected into the IGCSE Maths Accelerated group. This group sits for their Cambridge IGCSE Mathematics Examinations at the end of Year 10. The students then follow the Additional Mathematics Syllabus in Year 11. All Candidates take two written papers at the end of the course:

Paper 1 – 50% (no calculator), 2 hours
Paper 2 – 50% (no calculator), 2 hours



Contents

All candidates will study the following:

Number and its application;
Algebra and Graphs;
Coordinate Geometry;
Geometry; Mensuration,
Trigonometry;
Vectors and Transformations;
Probability and Statistics.

The course is tiered to enable effective differentiation for learners.

The Core content is intended for learners targeting G-C, and the Extended content is intended for learners targeting grades D-A*.

All of the Core content is in the Extended content.

Careers

Some exciting future careers include:

Construction, Architecture, Medicine, Scientific Research, Teaching, Banking and Finance, Games Development, Robotics and Engineering.

MUSIC



Students study a variety of styles of music from around the world and from different periods in history, including contemporary music. Individual composing and solo and group performing are important parts of the course.

Why study the subject ?

Even if students are not necessarily considering a possible future career in the music industry, there are many reasons to study music!

Music is practical and creative – it is one of the few subjects that allows us to express ourselves. Studying music develops many transferable skills such as communication, performance skills and confidence. As part of the group performing coursework, listening, reacting and working in groups is an important skill.

As well as the joy of making music and discovering other styles from around the world, studying music creates a more well-rounded and balanced student. This is something that universities are very keen on, regardless of which subject students are studying.

Assessment

There are 3 components that make up the IGCSE music course:

Component 1 – listening – 40%

This is a 75-minute written and listening exam.

Component 2 – performing coursework – 30%

Two prepared performances, one individual and one ensemble, on any instrument/voice and in any style. Audio recording made in class. Internally marked and externally moderated.

Component 3 – composing coursework – 30%

Two contrasting compositions, written for any instrument/voice or combination of instruments/voices. One in a classical style and the other in any style, including electronic music. Internally marked and externally moderated.

PHYSICAL EDUCATION

IGCSE Physical Education (PE) provides students with the chance to explore both practical and theoretical aspects of knowledge, skills, and comprehension in a diverse array of physical activities.

Opting for IGCSE PE is ideal for those who have a genuine enthusiasm for sports and physical education, coupled with a keen interest in comprehending performance. Proficiency as a sports performer is crucial due to the demanding physical nature of the practical component.

The course equips learners for diverse educational routes and opens doors to careers within the realm of sports and the rapidly growing health and fitness sector.

Career Opportunities

Sports management, Sports Science & Research, Physical Therapy, Sports Journalism & Broadcasting, Sports Events Management, Fitness Entrepreneurship, Physical Education Teaching, Sports Coaching, Recreation & Leisure management, Athletic Training and many more.

How to succeed in the subject

Students are expected to maintain extracurricular commitments throughout the course, as this greatly improves their final practical assessment.

A good understanding of biology greatly helps with the theory which links how the body works in relation to sport.

Assessment

Component 1: Theory paper.

1 Hour 45 minute examination (100 marks)
50% Weighting of final assessment

Component 2: Coursework.

Candidates undertake 4 physical activities from at least two of the seven categories listed each marked out of 25
50% Weighting of final assessment.



PHYSICS

Why study the subject ?

The subject equips learners with many skills including analytical thinking, communication, laboratory and mathematical problem solving techniques.



Career Opportunities

Career opportunities are in Architecture, Computer Industry, Dentistry, Medicine, Research, Aeronautical Engineering, Aerospace Engineering, Electrical Engineering, Electronic Engineering, Mechanical Engineering, Civil Engineering, Military and Robotics among others.



Assessment

At IGCSE, learners sit for three written examinations as follows:

1. Extension

Paper 2 - Multiple Choice Questions

Paper 4 - Structured Questions

Paper 6 - Alternative to Practical

Extension is graded from A* (highest) to G (lowest).

2. Core

Paper 1 - Multiple Choice Questions

Paper 3 - Structured Questions

Paper 6 - Alternative to Practical

Core is graded from C (highest) to G (lowest).

SOCIOLOGY

Students gain a better understanding of how we become who we are; analyze human behavior within their own society, between different cultures and across different periods of time.

They also appreciate the effects that choice of methodology can have on social science investigations; the ability to use sociological evidence and ideas to challenge their own beliefs and those of other people about issues such as equality, education, the family and crime.

Secret to Success

Learners should demonstrate knowledge and understanding of sociological ideas, apply sociological concepts and terms in the analysis and interpretation of data; an awareness of the complexity of social life and differing interpretations of social life; the ability to comprehend, analyze and interpret arrange of sociological evidence and theories; recognize the strengths and weaknesses of sociological Understanding key concepts, mastering sociological perspectives and studies, use of sociological material to support responses and practicing past paper questions.

Possible Careers

Research, Social worker, Public relations, Human resource, Counseling, Journalism, Writing, Community developer, Administration, Education, Gerontology, Law enforcement, Family planning, and Childcare amongst others.

Assessment

Paper 1 : (80 marks -2 hours -54%)

Candidates answer one compulsory data response question and one optional structured question from a choice of two. This paper test content from Units 1, 2 and 3 (Research methods" Culture, Identity and Socialization, Social inequality)

Paper 2 : (1 hour 45 minutes - 70 marks 46%)

Candidates answer two optional structured questions from a choice of four. This paper test content from Units 4, 5, 6 and 7 (Family, Education, Crime deviance & Social control. Media)





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