



**spark
generation**

Course Catalogue

Courses

IGCSE

Accounting
Biology
Business Studies
Chemistry
Combined Science
Computer Science
Economics
English
French
Geography
German
History
Mathematics
Physics
Sociology
Spanish
Foreign language tutoring

A Levels

Biology
Business Studies
Chemistry
Computer Science
Economics
Geography
History
Mathematics
Media Studies
Physics
Psychology
Sociology
Foreign language tutoring



spark
generation

IGCSE



Accounting

Topics

- The fundamentals of accounting
- Sources and recording of data
- Verification of accounting records
- Accounting procedures
- Preparation of financial statements
- Analysis and interpretation
- Accounting principles and policies

Assessment overview

Candidates take two papers: multiple choice and a structured written paper.

Biology

Topics

Characteristics and classification of living organisms
Organisation of the organism
Movement into and out of cells
Biological molecules
Enzymes
Plant nutrition
Human nutrition
Transport in plants
Transport in animals
Diseases and immunity

Gas exchange in humans
Respiration
Excretion in humans
Coordination and response
Drugs
Reproduction
Inheritance
Variation and selection
Organisms and their environment
Human influences on ecosystems
Biotechnology and genetic modification

Assessment overview

Candidates take two theory papers and one practical exam.

A photograph of a young woman with blonde hair, wearing a yellow t-shirt, sitting on a bed and looking at a tablet device. The image is partially cut off on the left side.

Business Studies

Topics

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

Assessment overview

Candidates take two papers: a theory paper and a case study.

Chemistry

Topics

States of matter
Atoms, elements and compounds
Stoichiometry
Electrochemistry
Chemical energetics
Chemical reactions
Acids, bases and salts
The periodic table
Metals
Chemistry of the environment
Organic chemistry
Experimental techniques and chemical analysis

Assessment overview

Candidates take two written papers and a practical test.



Topics

The subject content is divided into three sections: Biology, Chemistry and Physics. Candidates must study all three sections.

Biology

Characteristics of living organisms

Cells

Biological molecules

Enzymes

Plant nutrition

Animal nutrition

Transport

Gas exchange and respiration

Coordination and response

Reproduction

Organisms and their environment

Human influences on ecosystems

Combined Science

Chemistry

The particulate nature of matter

Experimental techniques

Atoms, elements and compounds

Stoichiometry

Electricity and chemistry

Energy changes in chemical reactions

Chemical reactions

Acids, bases and salts

The Periodic Table

Metals

Air and water

Organic chemistry

Physics

Motion

Work, energy and power

Thermal physics

Properties of waves, including light and sound

Electrical quantities

Electric circuits

Assessment overview

Candidates take two theory papers and one practical exam

Computer Science

Topics

Computer systems
Data representation
Data transmission
Hardware
Software
The internet and its uses
Automated and emerging technologies

Algorithms, programming and logic
Algorithm design and problem-solving
Programming
Databases
Boolean logic

Assessment overview

Candidates take two papers based on the following topics: computer systems and algorithms, programming and logic.





Economics

Topics

- The basic economic problem
- The allocation of resources
- Microeconomic decision makers
- Government and the macroeconomy
- Economic development
- International trade and globalisation

Assessment overview

Candidates take two papers: multiple choice and structured questions.

English

Topics

- Travel and transport
- Science and technology
- Sports and pastimes
- Jobs and money
- Media, films, entertainment
- Animals and the natural world

Assessment overview

Candidates take two papers: reading and writing & composition.



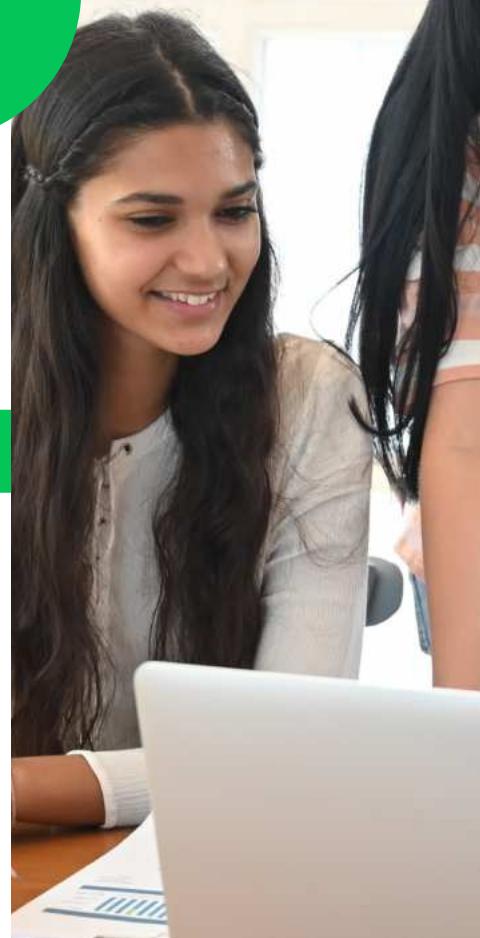
French

Topics

Everyday activities
Personal and social life
The world around us
The world of work
The international world

Assessment overview

Candidates take four papers:
listening, reading, speaking,
writing



A photograph of two young women with long dark hair, smiling and looking at a laptop screen together. The woman on the left is wearing an orange and white striped shirt, and the woman on the right is wearing a white t-shirt. They appear to be in a classroom or study area.

Geography

Topics

- Population and settlement
- The natural environment
- Economic development

Assessment overview

Candidates take two papers and coursework.

German

Topics

- Everyday activities
- Personal and social life
- The world around us
- The world of work
- The international world

Assesement overview

Candidates take four papers: listening, writing, speaking and reading.



A photograph of a young boy with dark hair, wearing a plaid shirt, sitting and looking down at a book he is holding. He is wearing blue jeans with a tear at the knee. In the background, another person's hands and a white shirt are visible.

History

Topics

All candidates study the core content in either:

Option A: The nineteenth century: the development of modern nation states, 1848–1914
or

Option B: The twentieth century: international relations since 1919

In addition, all candidates must also study at least one of the Depth Studies:

- A. The First World War, 1914–18
- B. Germany, 1918–45
- C. Russia, 1905–41
- D. The USA, 1919–41
- E. China, c. 1930 – c. 1990
- F. South Africa, c. 1940 – c. 1994
- G. Israelis and Palestinians since 1945

Assessment overview

Candidates take two written papers.

Mathematics

Topics

Number
Algebra
Shape and space
Probability and statistics

Assessment

All candidates take two papers.



A photograph showing three students in a classroom setting, focused on their laptops. The student in the foreground is wearing a yellow sweater and is clearly visible. The student in the middle is wearing a white ribbed sweater and is partially visible. The student in the background is wearing a green cardigan and is also partially visible. The background is blurred, showing other students and classroom elements.

Physics

Topics

- Motion, forces and energy
- Thermal physics
- Waves
- Electricity and magnetism
- Nuclear physics
- Space physics

Assessment overview

Candidates take multiple choice, theory and practical assessment.

Sociology

Topics

Theory and methods
Culture, identity and socialisation
Social inequality
Family
Education
Crime, deviance and social control
Media

Assessment

Candidates take one compulsory data response question and one optional structured question from a choice of two plus two optional structured questions from a choice of four.





Spanish

Topics

- Everyday activities
- Personal and social life
- The world around us
- The world of work
- The international world

Assessment overview

Candidates take four papers: listening, reading, speaking and writing.



Foreign language tutoring

During the admission process, you have the freedom to choose the language you want to study.

Simply specify your preference in this form, and we'll make it happen!



A Levels



**spark
generation**

Biology

Topics

Cell structure
Biological molecules
Enzymes
Cell membranes and transport
The mitotic cell cycle
Nucleic acids and protein synthesis
Transport in plants
Transport in mammals
Gas exchange
Infectious diseases
Immunity
Energy and respiration
Photosynthesis
Homeostasis
Control and coordination

Inheritance
Selection and evolution
Classification, biodiversity and conservation
Genetic technology

Assessment overview

Candidates take five written papers.



A photograph of a young woman with long blonde hair, wearing a yellow t-shirt and black headphones. She is sitting outdoors, with a dark backpack and a green landscape in the background. A large purple curved shape is in the top left corner.

Business studies

Topics

- Business and environment
- People in organisations
- Marketing
- Operations and project management
- Finance and Accounting

Assessment overview

Candidates take two written papers.

Chemistry

Topics

Physical chemistry
Inorganic chemistry
Organic chemistry and analysis

Assessment overview

Candidates take two written papers and a practical test.





Computer Science

Topics

- Data representation
- Communication and internet technologies
- Hardware and virtual machines
- System software
- Security artificial intelligence (AI)
- Computational thinking and problem-solving
- Further programming

Assessment overview

Candidates take four papers and a practical exam.

Economics

Topics

Basic economic ideas and resource allocation

The price system and the micro economy

Government microeconomic intervention

The macro economy

Government macro intervention

Assessment overview

Candidates take two papers.



Geography

Topics

Core physical geography
Hydrology and fluvial geomorphology
Atmosphere and weather
Rocks and weathering
Core human geography
Population
Migration
Settlement dynamics

Assessment overview

Candidates take two written papers.





History

Topics

Modern Europe, 1750–1921
The history of the USA, 1820–1941
International history, 1870–1945

Assessment overview

Candidates take four written papers.

Media Studies

Topics

- Media texts
- Technical elements
- Media contexts
- Media regulation
- Postmodern media
- Power and the media
- Media ecology

Assessment

Candidates have the possibility to take paper questions.





Physics

Topics

Physical quantities and units

Kinematics

Dynamics

Forces, density and pressure

Work, energy and power

Deformation of solids

Waves

Superposition

Electricity

D.C. circuits

Particle physics

**AS Level candidates also study practical skills.

Assessment overview

Candidates take three written papers.

Psychology

Topics

Candidates for Cambridge International A Level Psychology study the AS Level content (Biological, Cognitive, Learning, Social Approach, Research Methods) and two of the following options:

- Abnormality
- Consumer behaviour
- Health
- Organisations

Assessment overview

Candidates take four papers.



A photograph of a young woman with long dark hair, smiling broadly. She is wearing a blue zip-up hoodie and a yellow strap of a backpack is visible over her shoulder. The background shows green trees and a building, suggesting an outdoor campus setting.

Sociology

Topics

- Socialisation, identity and methods of research
- The family
- Education
- Globalisation, media and religion
- Media
- Religion

Assessment

Candidates take two written papers.

Mathematics

Topics

Pure Mathematics 1

Quadratics
Functions
Coordinate geometry
Circular measure
Trigonometry
Series
Differentiation
Integration

Pure Mathematics 2

Algebra
Logarithmic and exponential functions
Trigonometry
Differentiation
Integration
Numerical solution of equations

Pure Mathematics 3

Algebra
Logarithmic and exponential functions
Trigonometry
Differentiation
Integration
Numerical solution of equations
Vectors
Differential equations
Complex numbers

Probability & Statistics 2

The Poisson distribution

Linear combinations of random variables

Continuous random variables

Sampling and estimation

Hypothesis tests

Mechanics

Forces and equilibrium

Kinematics of motion in a straight line

Momentum

Newton's laws of motion

Energy, work and power

Probability & Statistics 1

Representation of data

Permutations and combinations

Probability

Discrete random variables

The normal distribution

Assessment overview

Candidates take four written papers.

Foreign language tutoring



During the admission process, you have the freedom to choose the language you want to study.

Simply specify your preference in this form, and we'll make it happen!

Other courses



Impact Entrepreneurship

Welcome to our comprehensive course on Impact Entrepreneurship, where we equip teenagers with the tools, knowledge, and mindset to create ventures that generate positive change and sustainable success.

Embark on a transformative journey into the realm of impact entrepreneurship with our comprehensive course designed to empower inspiring change makers and innovators.

Topics

- The basics of business
- Knowing yourself
- Knowing the playing field
- Building your business case
- Creating the business
- Creating the business
- From dreams to reality

Fee: €80





Sexual Education

Because too many young people receive confusing and conflicting information about puberty, relationships, love and sex, this course is created for teenagers aged 14-16 to give them accurate, age-appropriate information about sexuality and their sexual and reproductive health, which is critical for their health and survival.

Topics

- Relationships
- Values, rights, culture and sexuality
- Understanding gender
- Violence and bullying
- Skills for health and wellbeing
- The human body and development
- Sexuality and sexual behaviour
- Sexual and reproductive health

Fee: €200



**spark
generation**