



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



IGCSE



**spark
generation**



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.



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

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

Combined Science

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.



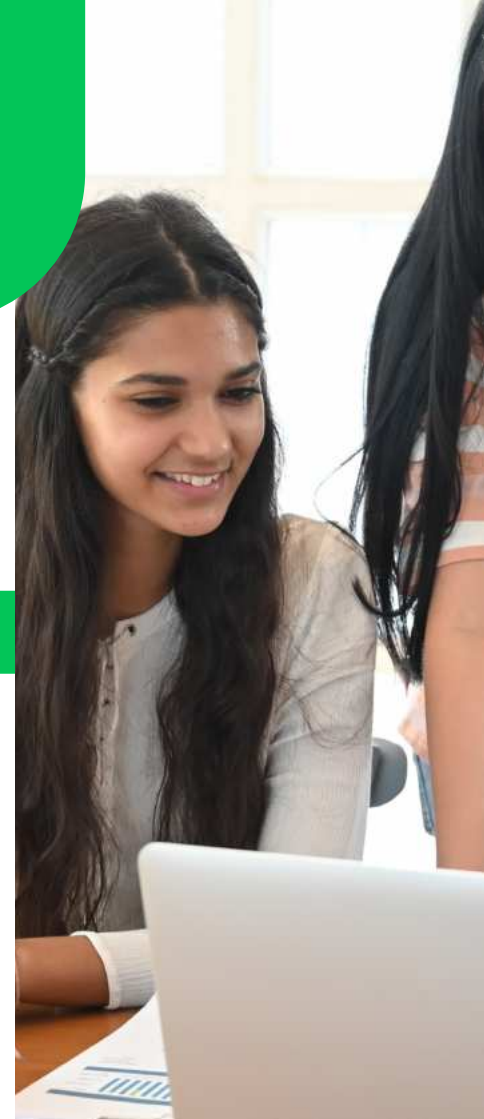
French

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. One is standing and leaning over the other, who is sitting at a desk and looking at a laptop. They are both smiling and appear to be in a collaborative learning environment.

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.





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.



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.





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
Systemsoftware
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
Corehuman 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.



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

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

Probability & Statistics 2

The Poisson distribution

Linear combinations of random variables

Continuous random variables

Sampling and estimation

Hypothesis tests

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