



 **spark** Course Catalogue

A Level



Contents

About Spark

Spark Values

Our three strands

Flipped-learning model

Head of School's Message

Admission process

Academic offer

Our A Level courses

Fees


Contact



About Spark

Spark School is a hybrid international High School, founded by global educators with experience of leading at independent schools around the world, offering the Cambridge International Curriculum. Spark School is changing the face of high school education by allowing the young people in their community to pursue their own passions and preferences in where, what and how they learn.

We bring innovation to education by blending modern teaching methods with a focus on wellbeing and future readiness to equip the next generations with the knowledge and skills that make them ready for life.

A photograph of two young women embracing warmly in what appears to be a school hallway or gymnasium. The woman on the left has curly brown hair and is wearing a black leather jacket. The woman on the right has straight brown hair and is wearing a black sweater and a black skirt with a floral pattern. The background shows wooden bleachers and a whiteboard with some faint drawings.

We envision Spark to be the **hybrid learning community of choice for teenagers wherever they are in the world.**

Kindness



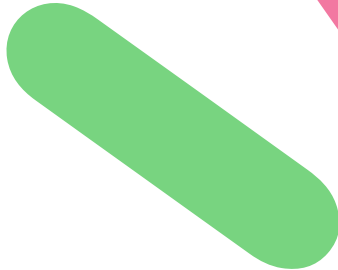
Empathy



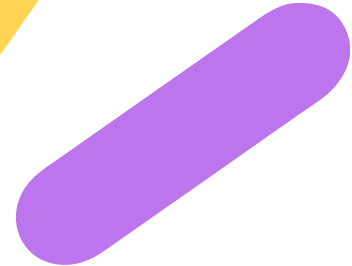
Honesty



Trust



Courage



**Spark
Values**

Our three strands



Academics

Students take charge of their education at their own pace while fostering an environment where they can thrive academically and creatively. The courses are created around how teenagers learn. Spark Hybrid High School gives control to determine each student's learning path – choosing how, what, when and where they study.

Wellbeing

We are a safe space for families to escape the traditional system. We are a transformative high school where families are encouraged to share contributions, mutual respect and work together to help teenagers be emotionally well.

Future Readiness

We cultivate the potential within every student and help them achieve it. Young learners will be prepared to become lifelong learners and have a foundation toolkit with essential skills to welcome their bright future.

Flipped-learning model

This approach enables self-paced learning, promotes active student engagement, and facilitates personalized feedback and support from tutors.

Pre-Class Work

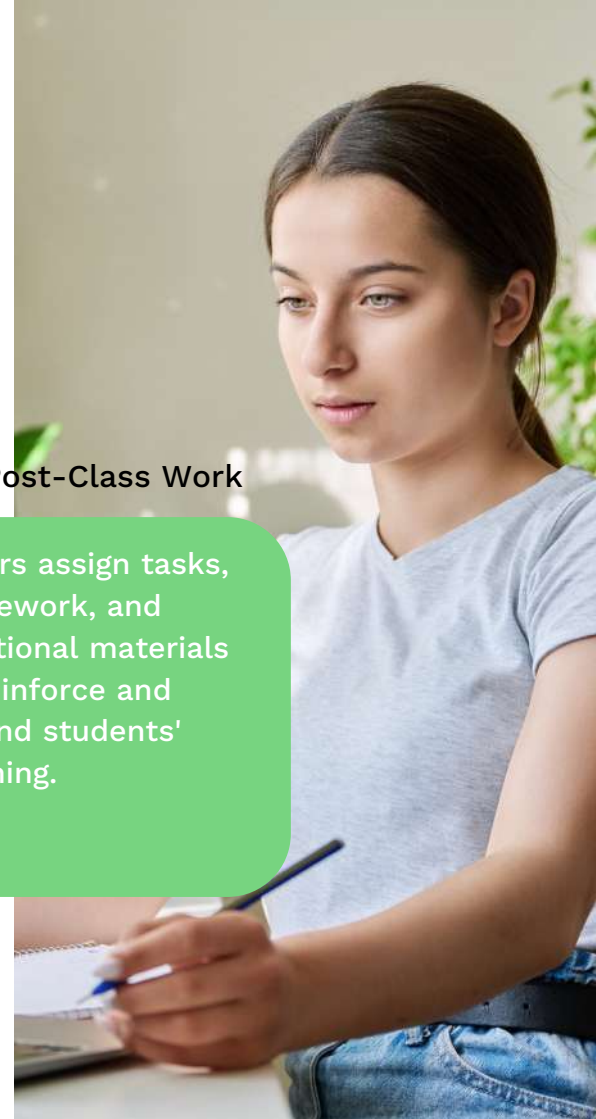
Students have the space to learn independently through self-paced courses and develop their customized learning path.

In-Class Work

Students attend weekly tutorials with tutors to discuss, clarify, and deepen their understanding of the material.

Post-Class Work

Tutors assign tasks, homework, and additional materials to reinforce and extend students' learning.



Head of School's Message

Dear all,

We are building an educational program fit for the future.

We believe in a unique education for every teenager and young adult to help them create a clear sense of purpose and identity. We inspire students to seek to understand rather than judge and act from a place of kindness towards themselves, those around them, and the environment. Our students find their path to meaning and fulfillment through personal leadership. They learn to lead a mindful, healthy life by practicing recharging, renewal, and ongoing learning fit for their future.

More than this, we understand parenting is a journey, not a destination.

We invest time and effort in understanding our children's challenges to offer them the support they need. We understand how valuable this stage is in developing a healthy adult. With the help of all the people in our community, we leave a legacy for a kinder, more courageous, and more moral society.

With love for our work,

Ruxandra Mercea

Head of Spark School



Admission process

We need to understand where you are in your educational journey and how we can help you achieve your educational and development goal. Please visit our website and social media profiles and if you have more questions, please let us know. We advise you to discuss with your child the subjects they prefer to learn in their educational and career path. Our admission process follows the next steps:

- 1. Family meeting** with our admission team to learn more about your story by filling in the form or directly booking a call
 - 2. Academic initial assessments** that allow us to gain insights into the student's abilities and knowledge and support their learning path with valuable recommendations:
 - English test
 - CEM Yellis for ages 14-16
 - CEM Alis for ages 16-19
 - 3. Contract and wellbeing survey** that ensure they will nurture a holistic learning experience based on the P.A.I.R.S. framework (Purpose, Autonomy, Identity, Relationships, Self-re/design)
- Start & Induction** to the hybrid high school that embraces your family's needs



Academic offer

Spark is your bridge to university. Thousands of learners worldwide gain places at leading universities yearly with Cambridge International AS & A Levels. The syllabuses develop a deep understanding of subjects and independent thinking skills.

Aimed at 16–19 year old students before university study, Cambridge International AS & A Levels are taken by over 175 000 students in more than 125 countries every year.

Choose the Cambridge courses that will help you to:

- develop unique skills
- learn to work independently
- handle and evaluate different types of information sources
- think logically and present coherent arguments

We're happy you want to pursue your education with Spark. Discover the courses that you can access by enrolling at Spark, whether you will join us as a full-time student or take only the academic courses that will help you access your international journey at the university you dream of.



Our A Level courses

History

Physics

Psychology

Geography

Chemistry

Business Studies

Media Studies

Computer Science

Economics

Biology

Mathematics

Sociology

French *

Spanish *

German *

* It's never too late to learn a new language and we encourage you to do to it, but please be aware that you will not be able to take your Cambridge exam for this course.



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 based on the following topics: Theory fundamentals, Fundamental problem-solving & programming skills, Advances theory and a practical exam.



History



Topics

Modern Europe, 1750–1921

The history of the USA, 1820–1941

International history, 1870–1945

Assessment overview

Candidates take four written papers.



German

Topics

Human relationships

Family

Generation gap

Young people

Patterns of daily life

Urban and rural life

The media

Food and drink

Law and order

Philosophy and belief

Health and fitness

Work and leisure

Equality of opportunity

Employment and unemployment

Sport

Free time activities

Travel and tourism

Education

Cultural life/heritage

War and peace

Social and economic
development

Scientific and medical advances

Technological innovation

Environment

Conservation

Pollution

Contemporary aspects of the
country or countries where
German is spoken

Assesement overview

Candidates take
four papers:
Speaking, Reading
& Writing, Essay,
Texts.



Spanish

Topics

Human relationships
Patterns of daily life
Work and leisure
War and peace
Medical advances
Environment
Contemporary aspects of the
countries where Spanish is
spoken



Assessment overview

Candidates take four papers:
Speaking, Writing & Reading,
Essay, Texts.

French

Topics

Human relationships

family

Generation gap

Young people

Patterns of daily life

Urban and rural life

The media

Food and drink

Law and order

Philosophy and belief

Health and fitness

Work and leisure

Equality of opportunity

Employment and

unemployment

Sport

Free time activities

Travel and tourism

Education

Cultural life/heritage

War and peace

Social and economic
development

Scientific and medical
advances

Technological innovation

Environment

Conservation

Pollution

Contemporary aspects of the
country or countries

where the language is spoken



Assessment overview

Candidates take four written papers: Speaking, Writing & Reading, Essay and Texts.

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:

Paper 1: Approaches, issues, and debates

Paper 2: Research methods

Paper 3: Specialist options: theory

Paper 4: Specialist options: application





Business studies

Topics

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

Assessment overview

Candidates take two written papers.

Media Studies

Topics

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

***Special Mention:** the Final Exam for this course can be taken only by students who meet one of the 2 following conditions:

- they are a resident in Romania/Cluj-Napoca and are able to come in physically to Transylvania College and take the exam here
- they are studying in a country where Spark has a partner physical school where they are able to take the exam (please check with a Spark representative based on your location, if interested)

Students who don't fit the criteria mentioned can still take the course - only they will not be able to get a certification when they complete it - instead, the course can help complete their professional portfolio.

Assessment

Candidates take four 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.



Chemistry

Topics

Physical chemistry
Inorganic chemistry
Organic chemistry and
analysis

Assessment overview

Candidates take two
written papers and a
practical test.



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.



Sociology

Topics

Socialisation, identity and methods of research
The Family
Education
Globalisation, Media and Religion
Media
Religion

Assessment

Candidates take two written papers from the following topics: Socialisation, identity and methods of research and The Family.



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.


Mathematics



Topics

Pure Mathematics 1

Quadratics
Functions
Coordinate geometry
Circular measure
Trigonometry
Series
Differentiation
Integration

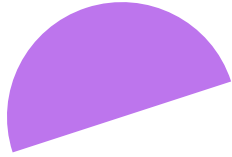


Pure Mathematics 2

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.



New Courses available from 2024

Law, Accounting, Travel&Tourism

Fees

	Package	Full price (EUR)	You save	Your price (EUR)	Additional course	Additional support
The Independent	2 subjects package (self-paced)	900	24%	680	extra 300 EUR/course	extra 700 EUR
The Daring	2 subjects package (tutors included)	3,700	15%	3,145	extra 1,700 EUR/course	extra 700 EUR
The Unstoppable	2 subjects package (tutors included) All 3 support services	6,100	20%	4,900		

Support Services


- University Admission Counselling
- Wellbeing Package
- Career Package

Admission always open

admissions@spark.school

+40 720 528 869

Social media links

 sparkschool.online

 spark.school

 spark-school-online

 SparkSchool1

 @sparkschool





Hybrid High School