



European School
IB Diploma Programme



Student's and Parent's Handbook

2021-2022



**Diploma
Programme**

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Message from the International Baccalaureate Diploma Programme coordinator

"The only way to do a great work is to love what you do".
Steve Jobs

Dear Parents and Students,

The IB Diploma Programme (IBDP) is renowned around the world, not only as an excellent university preparatory course, but also as a personally challenging and fulfilling experience. The programme aims to develop students, who have excellent breadth and depth of knowledge,

Through the Diploma Programme (DP) core, students reflect on the nature of knowledge, complete independent research and undertake a project that often involves community service. The Diploma Programme encourages students to become successful society members, lifelong learners driven by empathy and compassion whose intercultural respects aim to create better world.

European School is proud to offer the Diploma Programme since 2009. We cherish our reputation prioritizing quality of education and personal development of our students.

European School IB Diploma Programme graduates show remarkable progress achieving higher scores from year to year significantly exceeding world average results. The programme administrative and academic staff successfully handled the challenge of the COVID-19 pandemic, offering continuous quality education uninterrupted. Applied academic methods and advice enabled students to obtain knowledge equally well whether in online, hybrid or face-to-face mode. The IB DP team's pedagogical approach reduced psychological stress on students to the minimum, supporting them to face a new reality and achieve their goals.

In the 2021-2022 academic year, European School will open its doors to students in a safe and nurturing environment.

This handbook will guide your through IB DP requirements and academic programmes provided by European School.

We wish good luck to all students in successful acquaintance with the IB DP that helps them to become internationally minded global citizens, with developed individual personalities, well prepared for university education.

Best wishes for a successful year.

Ramaz Sartania
IB DP Coordinator

About the European School in brief

The school was founded in 2007. The school's offerings were initially from preschool to ninth grade. The original purpose in establishing the European School was to provide Georgian children with the opportunity to have access to high quality primary and secondary education with a strong foundation in English. This would give them the chance to succeed both at Georgian and worldwide universities, depending on the educational goals parents had for their children.

European School quickly became a popular choice for Georgian and international community families as international programs were added to the school curriculum.

In 2009, the European School obtained the authorization for the International Baccalaureate Diploma Programme (DP) that spanned grade levels 11-12 and became an international IB World School. Later, in 2012, the International Baccalaureate Middle Years Programme (MYP) was introduced to allow children earlier access to an international education. This was followed by the PYP authorization in 2016. Students began to transition into IB programs rather than seek transfers into other international schools.

European School was accredited by the Georgian Ministry of Education and Sciences in 2010 and was re-authorized in 2016. It became a College Board member in November 2015. The school was awarded the accredited school status by the Council of International Schools (CIS) in 2019. In 2020 the European School International Baccalaureate Diploma Programme successfully completed the IB-mandatory five-year programme evaluation with flying colours.

As an International School, European School has become a school where Georgian and international students learn in a mutually supportive environment. Indeed, a major objective is the facilitation of our students to become internationally minded global citizens.

Today, European School is proud to be considered as one of the best educational institutions in the country and the region with its modern infrastructure and facilities, up to date digital infrastructure and network, scientific laboratories and robotics classes.

The school's enrolment today stands at 900, from 311 when the school initially opened in 2007. Close to 33 different nationalities are represented at the school. This multi-cultural exposure complements the high level of education offered at the school. Our graduates are admitted to prestigious colleges or universities worldwide. We are striving to achieve the best and follow the path towards excellence.



Our Mission

The European School provides an exceptional education in a nurturing and academically challenging environment, inspiring each student to achieve their personal best and become an influential and socially responsible global citizen.

Our Values

Our values-driven international education is expressed through core values that are woven into every academic and extra-curricular activity at the European School. We actively promote four values that form the basis of everything we do. They include:

- Leading through innovation
- Pursuing excellence
- Growing by learning
- Fostering global citizenship

Global citizenship

With these values at our core, we encourage independent learning and empower students to embrace responsibility. Students at ES learn to celebrate diversity in a spirit of understanding and tolerance that helps them become citizens of the world.

Our commitment is to:

- Offer inclusive, diverse and innovative learning communities.
- Develop, support and empower our students intellectually, creatively, socially, physically and ethically in harmony with Georgian culture.
- Focus on academic excellence and integrity.
- Create lifelong learners.

IB Mission Statement

The International Baccalaureate aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect.

To this end, the organization works with schools, governments and international organizations to develop challenging programs of international education and rigorous assessment.

These Programmes encourage students across the world to become active, compassionate and lifelong learners who understand that other people, with their differences, can also be right.



IB learner profile

The aim of all IB programmes is to develop internationally minded people who, recognizing their common humanity and shared guardianship of the planet, help to create a better and more peaceful world.

As IB learners we strive to be:

INQUIRERS

We nurture our curiosity, developing skills for inquiry and research. We know how to learn independently and with others. We learn with enthusiasm and sustain our love of learning throughout life.

KNOWLEDGEABLE

We develop and use conceptual understanding, exploring knowledge across a range of disciplines. We engage with issues and ideas that have local and global significance.

THINKERS

We use critical and creative thinking skills to analyse and take responsible action on complex problems. We exercise initiative in making reasoned, ethical decisions.

COMMUNICATORS

We express ourselves confidently and creatively in more than one language and in many ways. We collaborate effectively, listening carefully to the perspectives of other individuals and groups.

PRINCIPLED

We act with integrity and honesty, with a strong sense of fairness and justice, and with respect for the dignity and rights of people everywhere. We take responsibility for our actions and their consequences.

OPEN-MINDED

We critically appreciate our own cultures and personal histories, as well as the values and traditions of others. We seek and evaluate a range of points of view, and we are willing to grow from the experience.

CARING

We show empathy, compassion and respect. We have a commitment to service, and we act to make a positive difference in the lives of others and in the world around us.

RISK-TAKERS

We approach uncertainty with forethought and determination; we work independently and cooperatively to explore new ideas and innovative strategies. We are resourceful and resilient in the face of challenges and change.

BALANCED

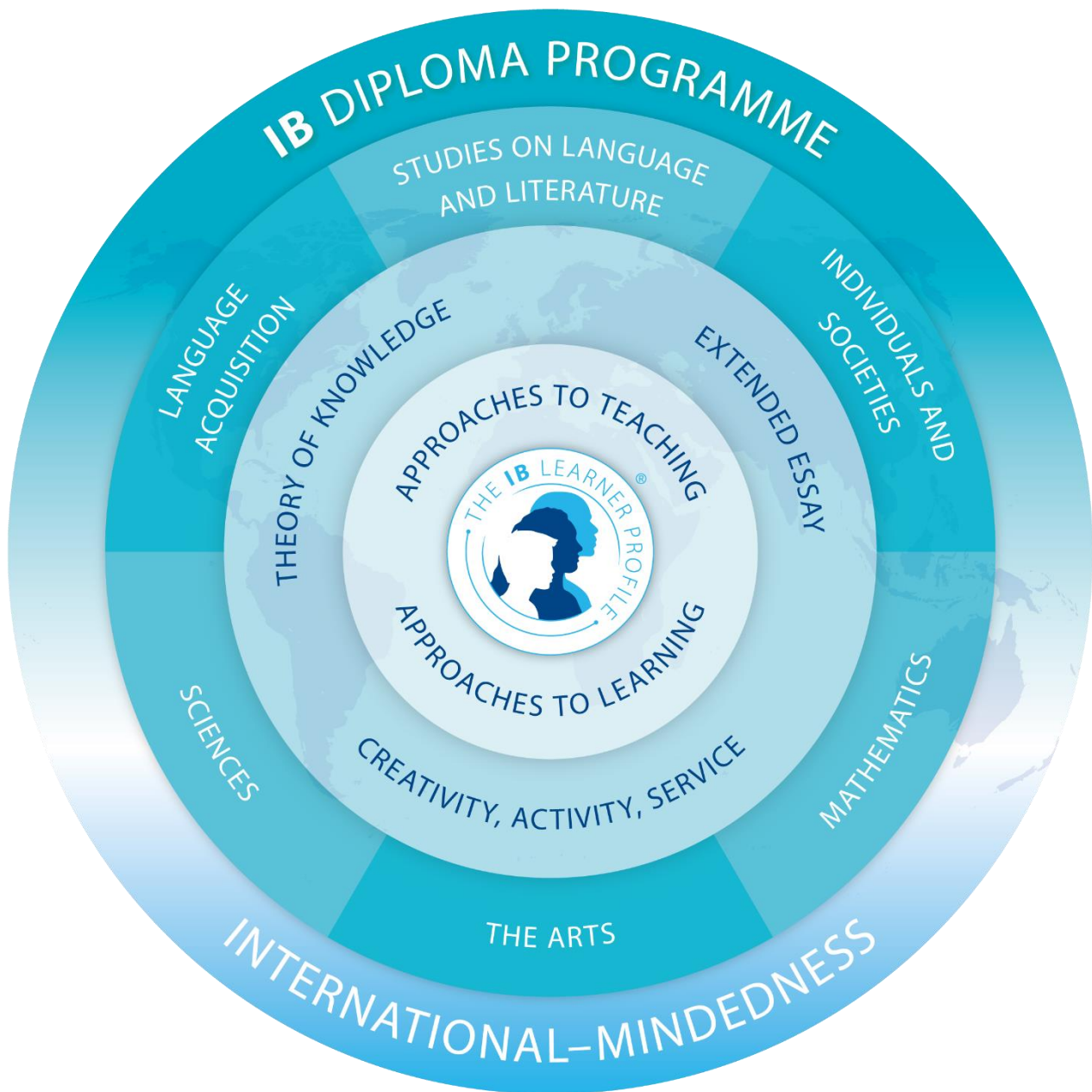
We understand the importance of balancing different aspects of our lives—intellectual, physical, and emotional—to achieve well-being for ourselves and others. We recognize our interdependence with other people and with the world in which we live.

REFLECTIVE

We thoughtfully consider the world and our own ideas and experience. We work to understand our strengths and weaknesses in order to support our learning and personal development.

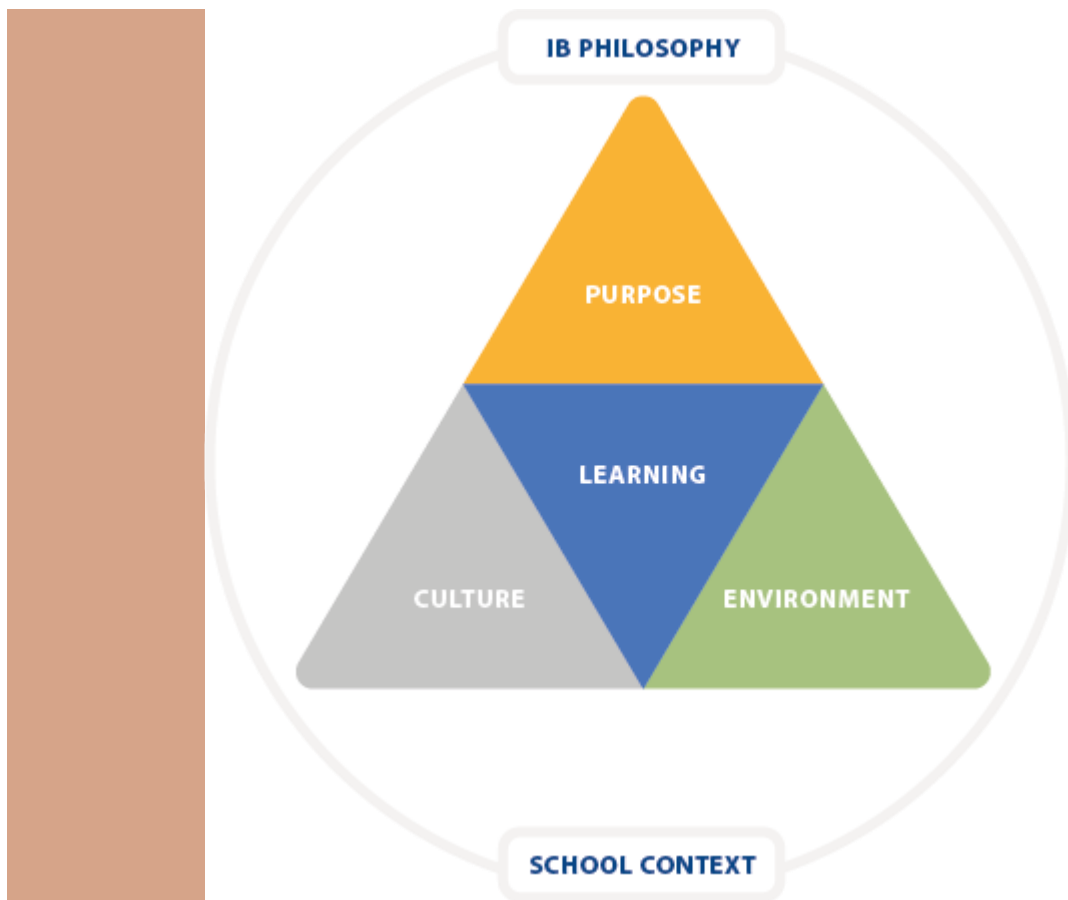
The IB learner profile represents 10 attributes valued by IB World Schools. We believe these attributes, and others like them, can help individuals and groups become responsible members of local, national and global communities.

IB Diploma Programme model



Programme standards and practices

The programme standards and practices are organized into four overarching categories: purpose, environment, culture and learning. The four categories fit into a framework, which places “learning” at the centre and is encircled by IB philosophy and the school’s unique context.



The framework is comprehensive and places **learning** at the heart of an IB World School community that:

- successfully integrates the IB **philosophy** within their school’s unique **context**;
- shares a **purpose** with the IB’s mission that builds into a solid approach to education;
- develops a learning **environment** sustained by effective structures, organizational practice and resources;
- fosters a dynamic school **culture** centered on holistic, inclusive learning communities;
- positively influences local, national and international **contexts**;
- creates student **learning** experiences of the highest quality possible.

The school community, with the IB, co-creates high-quality education that makes a better world.

IB DP at European School

European School is the first school in Georgia, which was authorized to offer IBDP in December 2009 and became an IB World School. Highly professional and dedicated teachers have been doing their best to implement this rigorous curriculum in the school and raise the awareness of the local community towards the international education. The IB DP at European School offers a broader education: There are six subject groups and students have to take a subject from each of the first five. In practice, this means that IB students have to study literature in their own language, a second language, a social science subject, a science and mathematics. It is possible to take visual arts as the sixth option or, instead, take an additional science, an additional language or an additional social science subject.

Recognition of the IB Diploma and university placement

The IB actively promotes wide recognition and acceptance of the IB diploma as a basis for entry to courses at universities and other institutions of higher education, but the requirements of individual institutions and the relevant authorities of a country are subject to change beyond the IB's control. Candidates bear the responsibility of verifying the entry requirements of the universities and other institutions of higher education to which they are interested in applying.

European School provides overseas university counseling that aims to help students and parents make informed decisions about studying abroad. Our goal is to help students find the university that matches their interests, ambitions, aspirations, mindsets, and attitudes. Family budgets and circumstances, as well as academic achievements and leadership potential, will also be taken into consideration. As there are many other variables that influence the decision-making process, we are here to discuss each case individually and offer our advice and solutions accordingly.

Use of candidate data

Data relating to a candidate including data such as name, address, email addresses, date of birth, and phone numbers may be used for the following purposes:

- registering candidates in the DP and administering the DP
- to provide DP support and services for the candidate including providing information to institutions of higher education (such as universities and colleges or governmental authorities related to admission to institutions of higher education)
- To fulfill statutory, regulatory, reporting and/or legal obligations.

Candidates or their legal guardians may inquire as to the nature of the candidate data processed about

him or her by their school to the extent permitted under data protection or privacy law applicable to the candidate and their respective School.

Content of the IB Diploma Programme

Candidates for the IB diploma must satisfy assessment requirements in six subjects and the core, each studied over a period of two years.

- The six subjects must be selected from six groups as prescribed by the IB for the appropriate examination session.
- At least three and not more than four subjects being offered at Higher Level and the others at Standard Level.

In addition to the six subjects, candidates for the IB diploma must:

- Take a course in Theory of Knowledge (TOK) and complete the required assessment;
- complete an approved programme of extra-curricular activities known as CAS

All students must be registered by the school's DP coordinator for each intended examination session and must take the requisite courses and examinations within the school. Registrations and payment of fees must be made by the relevant deadlines.

The following categories of registration are available:

- Diploma: candidates intending to complete the requirements for the award of an IB diploma.
- Retake: Diploma candidates who are seeking to improve on their results. The highest grade obtained for a subject will contribute towards the IB diploma.

Assessment

Examiners are appointed by the IB to assess candidates' work in Diploma Programme examinations and other forms of external assessment using common mark schemes. Most courses also require additional work, which is internally assessed and externally moderated. (All components must be submitted for assessment to receive a grade for a course.)

Grades

Performance in each subject is graded on a scale of 7 points (maximum) down to 1 point (minimum). Performance in theory of knowledge and the extended essay are each graded on a scale of A (maximum) to E (minimum). The CAS requirement is not assessed. For the IB Diploma, a maximum of 3 points is awarded for combined performance in theory of knowledge and the extended essay. The maximum total DP points score is 45.

Table 1: Point obtained and description of achievement

Point	Description
7	Excellent
6	Very Good
5	Good
4	Satisfactory
3	Weak
2	Poor
1	Very Poor/Failing

Table 2: Point matrix for grades obtained for TOK and EE

ToK/EE	A	B	C	D	E
A	3	3	2	2	Failing condition
B	3	2	2	1	
C	2	2	1	0	
D	2	1	0	0	
E	Failing condition				

IB diploma requirements

All assessment components for each of the six subjects and the additional Diploma requirements must be completed in order to qualify for the award of the IB Diploma.

The IB Diploma will be awarded to a candidate provided all the following requirements have been met.

- CAS requirements have been met.
- The candidate's total points are 24 or more.

- There is no “N” awarded for theory of knowledge, the extended essay or for a contributing subject.
- There is no grade E awarded for theory of knowledge and/or the extended essay.
- There is no grade 1 awarded in a subject/level.
- There are no more than two grade 2s awarded (HL or SL).
- There are no more than three grade 3s or below awarded (HL or SL).
- The candidate has gained 12 points or more on HL subjects (for candidates who register for four HL subjects, the three highest grades count).
- The candidate has gained 9 points or more on SL subjects, (candidates who register for two SL subjects must gain at least 5 points at SL).

A maximum of three examination sessions is allowed in which to satisfy the requirements for the award of the IB Diploma. The sessions need not be consecutive.

Diploma Candidates

Successful IB Diploma Candidates will receive an IB Diploma and a document entitled “Diploma Programme (DP) Results” listing the total IB Diploma points score, the subject grades, any points awarded, confirmation of the completion of all CAS requirements, and individual grades for the combination of theory of knowledge and the extended essay. An IB Diploma Candidate who fails to satisfy the requirements for the award of an IB Diploma will receive DP Course Results indicating the grades obtained in individual subjects, together with results in theory of knowledge and the extended essay, and confirmation of the completion of all CAS requirements, as appropriate.

Malpractice

Candidates suspected of academic misconduct

The IB Organization defines academic misconduct as behaviour (whether deliberate or inadvertent) that results in, or may result in, the candidate or any other candidate gaining an unfair advantage in one or more components of assessment. Behaviour that may disadvantage another candidate is also regarded as academic misconduct. Academic misconduct is a breach of these regulations and includes, but is not restricted to, the following:

- plagiarism—this is defined as the representation, intentionally or unintentionally, of the ideas, words or work of another person without proper, clear and explicit acknowledgment
- collusion—this is defined as supporting academic misconduct by another candidate, for example, allowing one’s work to be copied or submitted for assessment by another
- duplication of work—this is defined as the presentation of the same work for different assessment components and/or DP core requirements
- misconduct during an IB examination (for example, taking unauthorized material into an examination, behaviour that disrupts the examination or distracts other candidates, or communicating with another candidate)
- any other behaviour that gains an unfair advantage for a candidate or that affects the results of another candidate (for example, falsifying a CAS record, disclosure of information to and receipt of information from candidates about the content of an examination paper within 24 hours after a written examination via any form of communication/media).

Candidates must avoid any form of malpractice. **Any form of malpractice may disqualify the candidate from the award of the Diploma.**

Responsibility of IB Students

- There is an expectation that IB students model exemplary behaviour, conduct and appearance.
- All students must adhere to the discipline policy in the Student Planner.
- Maintain good standing at the school.
- Candidates are required to act in a responsible and ethical manner throughout their participation in the Diploma Programme and examinations. In particular, candidates must avoid any form of malpractice.
- IB students are required to attend classes on a regular basis to meet the minimum instructional hours set by the IB.

Mock exams

In order to help students prepare for the actual IB exams in April/May, we offer the grade 12 students the opportunity to sit practice exams in every course for which they are registered. These mock exams can help students understand in which areas they may need improvement, and they can give some indication of student performance on the final exams.

Students in grade 12 sit full Mock Exams in March.

These exams are exactly like the IB finals and are graded accordingly.

These are the last full internal examinations and directly affect the predicted grades for the IB.

DP Courses offered at European School

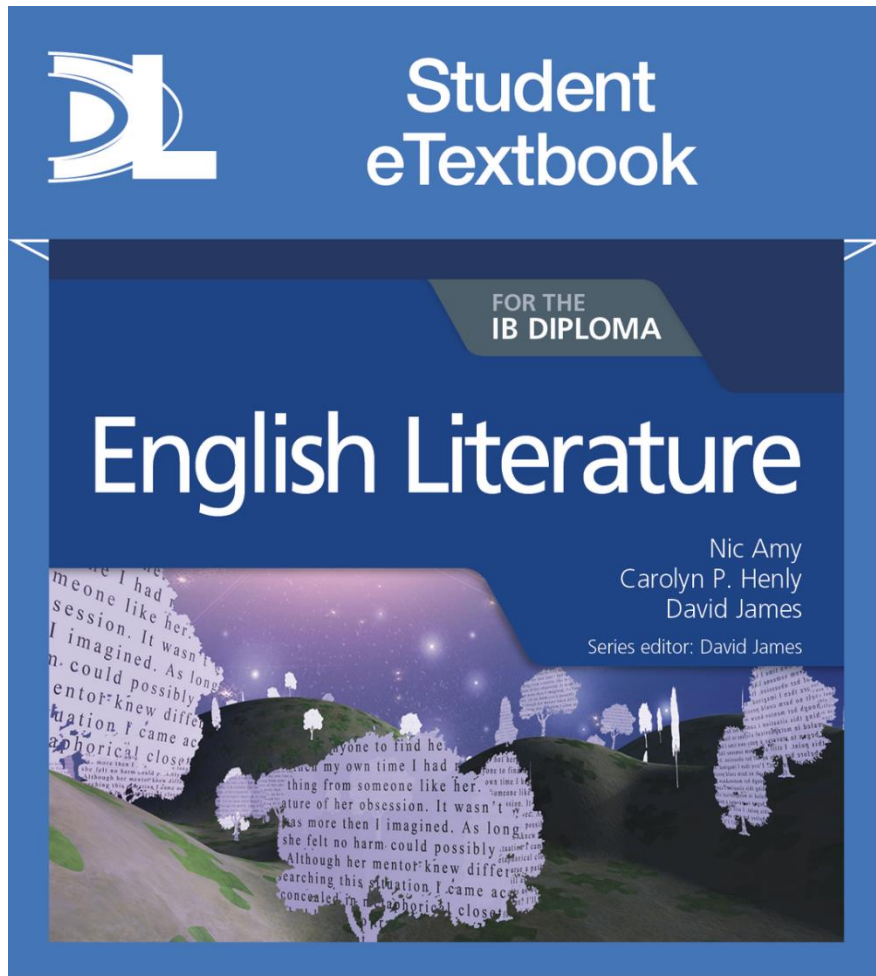
GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6
English Literature (SL/HL)	English B (SL/HL)	Business Management (SL/HL)	Biology (SL/HL)	Mathematics: Applications and interpretation (SL/HL)	Visual Arts (SL/HL)
Georgian Literature (SL/HL)	Spanish ab initio (SL)	Economics (SL/HL)	Chemistry (SL/HL)	Mathematics: Analysis and approaches (SL/HL)	
Russian Literature (SL/HL)		Geography (SL/HL)	Computer Science (SL/HL)		
School-supported self-taught (SL) *		History (SL/HL)	Physics (SL/HL)		
		Psychology (SL/HL)			

** For students for whom English is not the first language, a school supported self-taught option is available (at SL only). In this instance, the student engages a tutor to meet the requirements of this part of the diploma for their mother tongue. Students without a qualified tutor are strongly recommended not to choose the option.*

GROUP 1

Language A: literature

Language A: literature is a literature course that may be studied in a wide range of languages. Language A: literature is the subject through which the IB's policy of mother-tongue entitlement is delivered. That policy promotes respect for the literary heritage of the student's home language and provides an opportunity for students to continue to develop oral and written skills in their mother tongue while studying in a different language of instruction.



Distinction between SL and HL

SL students must study at least nine works of which:

- a minimum of four must be written originally in the language studied, by authors on the *Prescribed reading list*
- a minimum of three must be works in translation written by authors on the *Prescribed reading list*
- two can be chosen freely—from the *Prescribed reading list* or elsewhere—and may be in translation.

There must be a minimum of two works studied for each area of exploration. Works must be selected to cover three literary forms, three periods and three countries or regions (as defined on the *Prescribed reading list*) in at least two continents.

HL students must study at least 13 works of which:

- a minimum of five must be written originally in the language studied, by authors on the *Prescribed reading list*
- a minimum of four must be works in translation written by authors on the *Prescribed reading list*
- four can be chosen freely—from the *Prescribed reading list* or elsewhere—and may be in translation.

There must be a minimum of three works for each area of exploration. Works must be selected to cover the four literary forms, three periods and four countries or regions as defined on the *Prescribed reading list* in at least two continents.

School-supported self-taught students

School-supported self-taught (SSST) students may study language A: literature at SL only. They will be expected to meet the same syllabus requirements as for taught SL students, but with the following exception: all works studied must be written by authors chosen from the *Prescribed reading list*.

The open nature of the language A: literature syllabus means SSST students must be given assistance with specific aspects of their studies. They must be assigned a tutor in their first and best language and a special class must be created including all SSST students in the cohort which is scheduled in their school timetable. These arrangements are necessary to equip SSST students with the information and skills they will need to select works for their booklist, and to help them decide which works to use for each of the assessment components.

Students will also need guidance in choosing a suitable global issue for the works selected for the internal assessment, in selecting the extracts from each of them and in organizing their individual oral.

Assessment:

Higher Level (HL)

External Assessment: overall 80 %

Paper 1: Guided textual analysis (2 hours 15 minutes) 35%

The paper consists of two non-literary passages, from two different text types, each accompanied by a question. Students write an analysis of each of the passages.

Paper 2: Comparative essay (1 hour 45 minutes) 25%

The paper consists of four general questions. In response to one question students write a comparative essay based on two literary works studied in the course.

HL essay 20%

Students submit an essay on one non-literary body of work, or a literary work studied during the course. (20 marks)

The essay must be 1,200-1,500 words in length.

Internal assessment: Individual oral (15 minutes)**20%**

This component consists of an individual oral which is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Supported by an extract from both one non-literary body of work and one from a literary work, students will offer a prepared response of 10 minutes, followed by 5 minutes of questions by the teacher, to the following prompt: *“Examine the ways in which the global issue of your choice is presented through the content and form of one of the works and one of the bodies of work that you have studied.”*

Standard Level (SL)**External Assessment: 70 %****Paper 1: Guided textual analysis (1 hour 15 minutes)****35%**

The paper consists of two non-literary passages, from two different text types, each accompanied by a question. Students choose one passage and write an analysis of it.

Paper 2: Comparative essay (1 hour 45 minutes)**35%**

The paper consists of four general questions. In response to one question students write a comparative essay based on two literary works studied in the course.

Internal assessment**30%****Individual oral (15 minutes)**

This component consists of an individual oral which is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Supported by an extract from one non-literary body of work and one from a literary work, students will offer a prepared response of 10 minutes, followed by 5 minutes of questions by the teacher, to the following prompt: *“Examine the ways in which the global issue of your choice is presented through the content and form of one of the works and one of the bodies of work that you have studied.”*

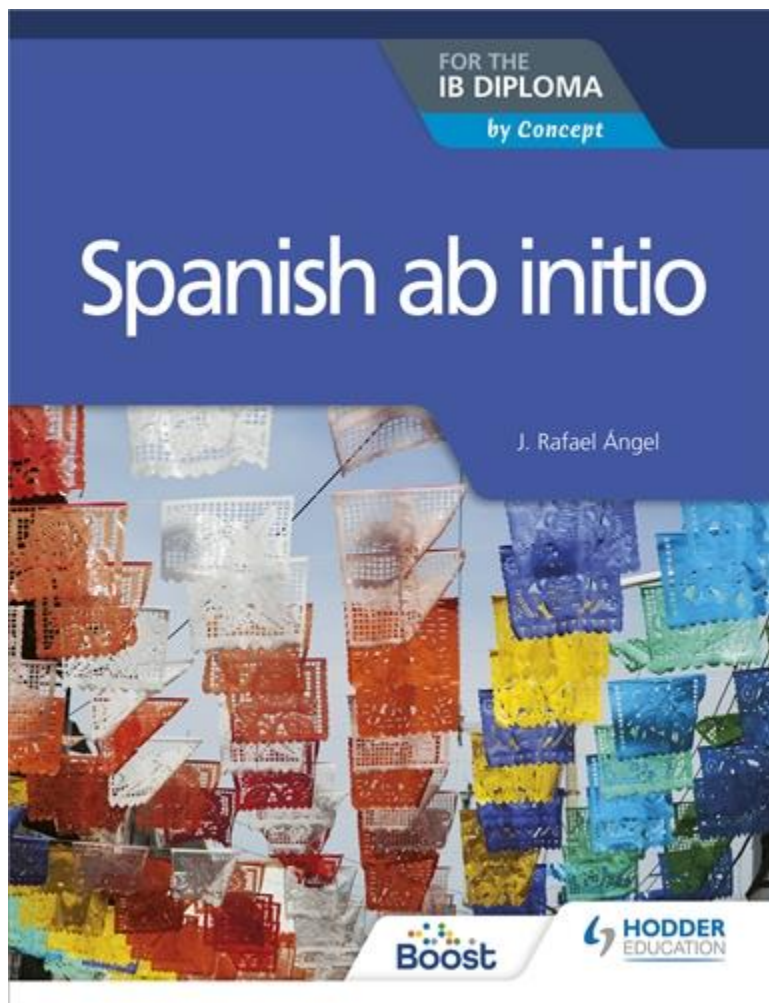
GROUP 2

Language acquisition and Language ab initio

Language acquisition consists of two modern language courses—language ab initio and language B—that are offered in a number of languages, and a classical languages course that is offered in Latin and Classical Greek. Owing to the nature of language study in the latter, there are specific aims for classical literature that can be found in the Classical languages guide. Language ab initio and language B are language acquisition courses designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken. This process allows the learner to go beyond the confines of the classroom, expanding their awareness of the world and fostering respect for cultural diversity.

The two modern language courses—language ab initio and language B—develop students’ linguistic

abilities through the development of receptive, productive and interactive skills (as defined in the “Syllabus content” section). The classical languages course focuses on the study of the language, literature and culture of the classical world.



Distinction between SL and HL

At both levels of language B (SL and HL), students learn to communicate in the target language in familiar and unfamiliar contexts. They describe situations, narrate events, make comparisons, explain problems, and state and support their personal opinions on a variety of topics relating to course content. The study of two literary works originally written in the target language is required only at language B HL. The distinction between language B SL and HL can also be seen in the level of competency the student is expected to develop in the receptive, productive and interactive skills.

Assessment:

HL / SL

External assessment (3 hours)

75%

Paper 1 (1 hour 15 minutes)

25%

Productive skills—writing

One writing task of 250–400 words from a choice of three, each from a different theme, choosing a text type from among those listed in the examination instructions

Paper 2 (1 hour 45 minutes)

50%

Receptive skills—separate sections for listening and reading

Listening comprehension (45 minutes)

Reading comprehension (1 hour)

Comprehension exercises on three audio passages and three written texts, drawn from all five themes

Internal assessment

25%

Individual oral assessment

This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.

A conversation with the teacher, based on a visual stimulus, followed by discussion based on an additional theme.

GROUP 3



Business management

Business management is a rigorous, challenging and dynamic discipline in the individuals and societies subject group. The role of businesses, as distinct from other organizations and actors in a society, is to produce and sell goods and services that meet human needs and wants by organizing resources. Profit-making, risk-taking and operating in a competitive environment characterize most business organizations.

Business management studies business functions, management processes and decision-making in contemporary contexts of strategic uncertainty. It examines how business decisions are influenced by factors internal and external to an organization, and how these decisions impact upon its stakeholders, both internally and externally. Business management also explores how individuals and groups interact within an organization, how they may be successfully managed and how they can ethically optimize the use of resources in a world with increasing scarcity and concern for sustainability.

Distinction between SL & HL

The HL course in business management differs from the SL course in terms of the:

- recommended hours devoted to teaching
- extra depth and breadth required (extension units for HL)

- nature of the internal assessment task
- nature of the examination questions.

Standard Level (SL)

External assessment Assessment

Paper 1 30%

Section A

Students answer two of three structured questions based on the pre-seen case study.

Section B

Students answer one compulsory structured question primarily based on the additional stimulus material.

Paper 2 45%

Section A

Students answer one of two structured questions based on stimulus material with a quantitative focus.

Section B

Students answer one of three structured questions based on stimulus material.

Section C

Students answer one of three extended response questions primarily based on two concepts that underpin the course.

Internal assessment 25%

This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Written commentary

Students produce a written commentary based on three to five supporting documents about a real issue or problem facing a particular organization. Maximum 1500 words.

Higher Level (HL)

External assessment

Paper 1 30%

Section A

Students answer two of three structured questions based on the pre-seen case study.

Section B

Students answer one compulsory structured question primarily based on the additional stimulus material.

Section C

Students answer one compulsory extended response question primarily based on the additional stimulus material.

Paper 2 45%

Section A

Students answer one of two structured questions based on stimulus material with a quantitative focus.

Section B

Students answer two of three structured questions based on stimulus material.

Section C

Students answer one of three extended response questions primarily based on two concepts that underpin the course.

Internal assessment 25%

This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Research project

Students research and report on an issue facing an organization or a decision to be made by an organization (or several organizations). Maximum 2000 words.

Economics

Economics is an exciting, dynamic subject that allows students to develop an understanding of the complexities and **interdependence** of economic activities in a rapidly changing world.

At the heart of economic theory is the problem of **scarcity**. While the world's population has unlimited needs and wants, there are limited resources to satisfy these needs and wants. As a result of this scarcity, **choices** have to be made. The economics course, at both SL and HL, uses economic theories to examine the ways in which these choices are made:

- at the level of producers and consumers in individual markets (microeconomics)
- at the level of the government and the national economy (macroeconomics)
- at an international level where countries are becoming increasingly interdependent through international trade and the movement of labour and capital (the global economy).



Syllabus outline

Syllabus component

Unit 1: Introduction to economics

- 1.1 What is economics?
- 1.2 How do economists approach the world?

Unit 2: Microeconomics

- 2.1 Demand **(includes HL only sub-topics)**
- 2.2 Supply **(includes HL only sub-topics)**
- 2.3 Competitive market equilibrium
- 2.4 Critique of the maximizing behaviour of consumers and producers **(HL only)**
- 2.5 Elasticity of demand **(includes HL only sub-topics)**
- 2.6 Elasticity of supply **(includes HL only sub-topics)**
- 2.7 Role of government in microeconomics **(includes HL only calculation)**
- 2.8 Market failure—externalities and common pool or common access resources **(includes HL only calculation)**
- 2.9 Market failure—public goods
- 2.10 Market failure—asymmetric information **(HL only)**
- 2.11 Market failure—market power **(HL only)**
- 2.12 The market's inability to achieve equity **(HL only)**

Unit 3: Macroeconomics

- 3.1 Measuring economic activity and illustrating its variations
- 3.2 Variations in economic activity—aggregate demand and aggregate supply
- 3.3 Macroeconomic objectives **(includes HL only calculation)**

Syllabus component

3.4 Economics of inequality and poverty **(includes HL only calculation)**

3.5 Demand management (demand side policies)—monetary policy **(includes HL only sub-topics)**

3.6 Demand management—fiscal policy **(includes HL only sub-topics)**

3.7 Supply-side policies

Unit 4: The global economy

4.1 Benefits of international trade **(includes HL only subtopics and calculation)**

4.2 Types of trade protection **(includes HL only calculations)**

4.3 Arguments for and against trade control/protection

4.4 Economic integration

4.5 Exchange rates **(includes HL only sub-topic)**

4.6 Balance of payments **(includes HL only sub-topics)**

4.7 Sustainable development **(includes HL only sub-topic)**

4.8 Measuring development

4.9 Barriers to economic growth and/or economic development

4.10 Economic growth and/or economic development strategies

Internal assessment

Portfolio of three commentaries

Assessment component SL	Weighting
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<p>External assessment</p> <p>Paper 1 (1 hour and 15 minutes)</p> <p>An extended response paper (25 marks)</p> <p>Students answer one question from a choice of three.</p>	<p>70%</p> <p>30%</p>
<p>Paper 2(1 hour and 45 minutes)</p> <p>A data response paper (40 marks)</p> <p>Students answer one question from a choice of two.</p>	<p>40%</p>
<p>Internal assessment (20 teaching hours)</p> <p>This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.</p> <p>Students produce a portfolio of three commentaries, based on different units of the syllabus (excluding the introductory unit) and on published extracts from the news media. Maximum 800 words for each commentary</p>	<p>30%</p>

Assessment component HL	Weighting
<p>External assessment</p> <p>Paper 1(1 hour and 15 minutes)</p> <p>An extended response paper (25 marks). Students answer one question from a choice of three.</p>	<p>80%</p> <p>30%</p>
<p>Paper 2 (1 hour and 45 minutes)</p> <p>A data response paper. Students answer one question from a choice of two.</p>	<p>30%</p>
<p>Paper 3 (1 hour and 45 minutes)</p> <p>A policy paper, Students answer two compulsory questions.</p>	<p>20%</p>

<p>Internal assessment</p> <p>This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.</p> <p>Students produce a portfolio of three commentaries, based on different units of the syllabus (excluding the introductory unit) and on published extracts from the news media. Maximum 800 words for each commentary</p>	<p>20%</p>
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Geography

Geography is a dynamic subject that is firmly grounded in the real world and focuses on the interactions between individuals, societies and physical processes in both time and space. It seeks to identify trends and patterns in these interactions. It also investigates the way in which people adapt and respond to change and evaluates actual and possible management strategies associated with such change. Geography describes and helps to explain the similarities and differences between different places. These may be defined on a variety of scales and from the perspectives of a different range of actors, with varying powers over decision-making processes.

Within individuals and societies subjects, geography is distinctive in its spatial dimension and occupies a middle ground between social or human sciences and natural sciences. The Diploma Programme geography course integrates physical, environmental and human geography, and ensures that students acquire elements of both socio-economic and scientific methodologies. Geography takes advantage of its position to examine relevant concepts and ideas from a wide variety of disciplines. This helps students develop life skills and have an appreciation of, and a respect for, alternative approaches, viewpoints and ideas.

Distinction between SL and HL

Students at SL and HL in geography are presented with a syllabus that has optional geographic themes and a common SL and HL core. HL students also study the HL core extension. The syllabus requires the development of certain skills, attributes and knowledge as described in the assessment objectives, which are externally assessed. Although the skills and activity of studying geography are common to both SL and HL students, HL students are required to acquire a further body of knowledge, to demonstrate critical evaluation and to further synthesize the concepts in the HL extension.

In summary:

- SL students study two optional themes; HL students study three optional themes, providing further breadth.
- Both SL and HL students study the core geographic perspectives—global change.
- HL students study the HL extension geographic perspectives—global interactions, and further examine, evaluate and synthesize the prescribed concepts, which by their nature are complex, contestable, interlinked and require holistic treatment. This provides further depth at HL.
- Both SL and HL students complete a fieldwork study for the internal assessment.

The aims of the geography course at SL and HL are to enable students to:

1. develop an understanding of the dynamic interrelationships between people, places, spaces and the environment at different scales
2. develop a critical awareness and consider complexity thinking in the context of the nexus of geographic issues, including:
 - a. acquiring an in-depth understanding of how geographic issues, or wicked problems, have been shaped by powerful human and physical processes
 - b. synthesizing diverse geographic knowledge in order to form viewpoints about how these issues could be resolved
3. Understand and evaluate the need for planning and sustainable development through the management of resources at varying scales.

The geography course conceptually and contextually embodies international and global awareness in several distinctive approaches. It examines key world issues, such as the nexus of sustainable environmental, societal and economic development, and climate change. Diploma Programme geography adopts a similar concept-based approach, using the four **key concepts** of place, process, power and possibility.

SL

External assessment 75%

Paper 1 35%

Geographic themes—two options

Paper 2 40%

Geographic perspectives—global change

Internal assessment 25%

This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Fieldwork Written report

HL

External assessment 80%

Paper 1 35%

Geographic themes—three options

Paper 2 25%

Geographic perspectives—
global change

Paper 3 20%

Geographic perspectives—
global interactions

Internal assessment 20%

This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Fieldwork

Fieldwork involves the collection of primary data in the field and the subsequent treatment, display and analysis of this information using appropriate skills. The material is presented in a written report.

History

The DP history course is a world history course based on a comparative and multiperspective approach to history. It involves the study of a variety of types of history, including political, economic, social and cultural, and provides a balance of structure and flexibility. The course emphasizes the importance of encouraging students to think historically and to develop historical skills as well as gaining factual knowledge. It puts a premium on developing the skills of critical thinking, and on developing an understanding of multiple interpretations of history. In this way, the course involves a challenging and demanding critical exploration of the past.

There are six key concepts that have prominence throughout the DP history course.

- Change
- Continuity
- Causation
- Consequences
- Significance
- Perspectives

International-mindedness is an umbrella term through which the IB defines the goal of international education, and which is exemplified by the emphasis in all IB Programmes on promoting global engagement, multilingualism and intercultural understanding.

The DP history course is designed in such a way as to explicitly reinforce the emphasis on the development of international-mindedness. In addition, all students are required to study case studies and examples from different regions of the world, with comparison of such examples helping to ensure that the course adopts a transnational perspective. Teachers also have a great deal of freedom to choose relevant examples to explore with their students, helping to ensure that the course appropriately meets their students' needs and interests regardless of their location or context.

Throughout the DP history course, students have the opportunity to explore historical events that have played a key role in shaping the world today, deepening their understanding of the complex and interconnected nature of past and present events. This helps to meet one of the central aims of the course—to increase students' understanding of themselves and of contemporary society by encouraging reflection on the past.

Distinction between SL and HL

Students at standard level (SL) and higher level (HL) are presented with a syllabus that has a common core consisting of prescribed subjects and topics in world history. In addition, students at HL are also required to undertake an in-depth study of three sections from one of the HL regional options. While many of the skills of studying history are common to both SL and HL, the difference in recommended teaching hours at SL and HL signals a clear distinction between the demands made on students, with the greater depth of study required for HL.

SL

External assessment 75%

Paper 1 30%

Source-based paper based on the five prescribed subjects. Students choose **one** prescribed subject from a choice of five.

Paper 2 45%

Essay paper based on the 12 world history topics. Answer two essay questions on two different topics.

Internal assessment 25%

This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Historical investigation

Students are required to complete a historical investigation into a topic of their choice.

HL

External assessment 80%

Paper 1 20%

Source-based paper based on the five prescribed subjects. Students choose **one** prescribed subject from a choice of five. They answer four structured questions.

Paper 2 25%

Essay paper based on the 12 world history topics. Students answer two essay questions on two different topics.

Paper 3 35%

Separate papers for each of the four regional options. For the selected region, students answer three essay questions.

Internal assessment 20%

This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Historical investigation

Students are required to complete a historical investigation into a topic of their choice.

Psychology

Psychology is the rigorous and systematic study of mental processes and behaviour. It is a complex subject which draws on concepts, methods and understandings from a number of different disciplines. There is no single approach that would describe or explain mental processes and behaviour on its own as human beings are complex animals, with highly developed frontal lobes, cognitive abilities, involved social structures and cultures. The study of behaviour and mental processes requires a multidisciplinary approach and the use of a variety of research techniques whilst recognizing that behaviour is not a static phenomenon, it is adaptive, and as the world, societies and challenges facing societies change, so does behaviour.

At the core of the DP psychology course is an introduction to three different approaches to understanding behaviour:

- biological approach to understanding behaviour
- cognitive approach to understanding behaviour
- sociocultural approach to understanding behaviour.

The knowledge, concepts, theories and research that have developed the understanding in these fields will be studied and critically evaluated to answer some of the questions being asked by psychologists today. The contribution and the interaction of the three approaches can be best understood through the options.

There are four options in the course. They focus on areas of applied psychology:

- abnormal psychology
- developmental psychology
- health psychology
- psychology of human relationships.

The options provide an opportunity to take what is learned from the study of the approaches to psychology and put it into the context of specific lines of inquiry, broaden students' experience of the discipline and develop the students' critical inquiry skills.

Psychologists employ a range of research methods, both qualitative and quantitative, in order to test their observations and hypotheses. As a part of the core syllabus, DP psychology promotes an understanding of the various approaches to research and how they have been used in order to critically reflect on the evidence as well as assist in the design, implementation, analysis and evaluation of the students' own investigations.

Psychology studies human beings and as such it is paramount that the ethical implications in any line of investigation, and at all points in the course, are fully explored and understood to ensure that ethical guidelines are always followed.

Distinction between SL and HL

There are three main distinctions between this course at SL and at HL.

1. The following extensions to the core approaches are studied at HL only:
 - the role of animal research in understanding human behaviour
 - cognitive processing in the digital world
 - the influence of globalization on individual attitudes, identities and behaviour. This differentiation is reflected in paper 1 section B of the external assessment.
2. SL students are required to study one option while HL students study two options. This differentiation is reflected in paper 2 of the external assessment.
3. Both SL and HL students will be expected to show their understanding of approaches to research in the internal assessment. Additionally, HL students will be directly assessed on their understanding of approaches to research in paper 3 of the external assessment. This will cover both qualitative and quantitative research methods.

Assessment component SL	Weighting
External assessment	75%
<i>Paper 1</i>	50%
Section A: Three short-answer questions on the core approaches to psychology	

<p><i>Section B: One essay from a choice of three on the biological, cognitive and sociocultural approaches to behavior.</i></p> <p><i>Paper 2</i></p> <p>One question from a choice of three on one option</p>	25%
<p>Internal assessment</p> <p>This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.</p> <p><i>Experimental study</i></p> <p>A report on an experimental study undertaken by the student.</p>	25%

Assessment component HL	Weighting
<p>External assessment</p> <p><i>Paper 1</i></p> <p>Section A: Three short-answer questions on the core approaches to psychology.</p> <p><i>Section B: One essay from a choice of three on the biological, cognitive and sociocultural approaches to behaviour. One, two or all the essays will reference the additional HL topic.</i></p> <p><i>Paper 2</i></p> <p><i>Two questions; one from a choice of three on each of two options</i></p> <p><i>Paper 3</i></p> <p>Three short-answer questions from a list of six static questions on approaches to research.</p>	<p>80%</p> <p>40%</p> <p>20%</p> <p>20%</p>
<p>Internal assessment</p> <p>This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.</p> <p><i>Experimental study</i></p> <p>A report on an experimental study undertaken by the student.</p>	20%

GROUP 4

Integral to the experience of students in any of the group 4 courses is their experience in the classroom, laboratory or in the field. Practical activities allow students to interact directly with natural phenomena and secondary data sources. These experiences provide the students with the opportunity to design investigations, collect data, develop manipulative skills, analyze results, collaborate with peers and evaluate and communicate their findings. Experiments can be used to introduce a topic, investigate a phenomenon or allow students to consider and examine questions and curiosities. By providing students with the opportunity for hands-on experimentation, they are carrying out some of the same processes that scientists undertake. Experimentation allows students to experience the nature of scientific thought and investigation. All scientific theories and laws begin with observations.

A school's practical scheme of work allows students to experience the full breadth and depth of the course including the option. This practical scheme of work must also prepare students to undertake the independent investigation that is required for the internal assessment. The development of students' manipulative skills should involve them being able to follow instructions

accurately and demonstrate the safe, competent and methodical use of a range of techniques and equipment.

The “Applications and skills” section of the syllabus lists specific lab skills, techniques and experiments that students must experience at some point during their study of their group 4 course. Other recommended lab skills, techniques and experiments are listed in the “Aims” section of the subject-specific syllabus pages. Aim 6 of the group 4 subjects directly relates to the development of experimental and investigative skills.

Biology

Biology is the study of life. The first organisms appeared on the planet over 3 billion years ago and, through reproduction and natural selection, have given rise to the 8 million or so different species alive today. Estimates vary, but over the course of evolution 4 billion species could have been produced. Most of these flourished for a period of time and then became extinct as new, better adapted species took their place. There have been at least five periods when very large numbers of species became extinct and biologists are concerned that another mass extinction is under way, caused this time by human activity. Nonetheless, there are more species alive on Earth today than ever before. This diversity makes biology both an endless source of fascination and a considerable challenge.

An interest in life is natural for humans; not only are we living organisms ourselves, but we depend on many species for our survival, are threatened by some and co-exist with many more. From the earliest cave paintings to the modern wildlife documentary, this interest is as obvious as it is ubiquitous, as biology continues to fascinate young and old all over the world.



Distinction between SL and HL

Biology students at standard level (SL) and higher level (HL) undertake a common core syllabus, a common internal assessment (IA) scheme and have some overlapping elements in the option studied. They are presented with a syllabus that encourages the development of certain skills,

attributes and attitudes, as described in the “Assessment objectives” section of the guide.

While the skills and activities of group 4 science subjects are common to students at both SL and HL, students at HL are required to study some topics in greater depth, in the additional higher level (AHL) material and in the common options. The distinction between SL and HL is one of breadth and depth.

Assessment outline—SL

Component	Overall weighting (%)
Paper 1	20
Paper 2	40
Paper 3	20
Internal assessment	20

Assessment outline—HL

Component	Overall weighting (%)
Paper 1	20
Paper 2	36
Paper 3	24
Internal assessment	20

Chemistry



Chemistry is an experimental science that combines academic study with the acquisition of practical and investigational skills. It is often called the central science, as chemical principles underpin both the physical environment in which we live and all biological systems. Apart from being a subject worthy of study, chemistry is a prerequisite for many other courses in higher education, such as medicine, biological science and environmental science, and serves as useful preparation for employment.

Earth, water, air and fire are often said to be the four classical elements. They have connections with Hinduism and Buddhism. The Greek philosopher Plato was the first to call these entities elements. The study of chemistry has changed dramatically from its origins in the early days of alchemists, who had as their quest the transmutation of common metals into gold. Although today alchemists are not regarded as being true scientists, modern chemistry has the study of alchemy as its roots. Alchemists were among the first to develop strict experimentation processes and laboratory techniques. Robert Boyle, often credited with being the father of modern chemistry, began experimenting as an alchemist.

Despite the exciting and extraordinary development of ideas throughout the history of chemistry, certain things have remained unchanged. Observations remain essential at the very core of chemistry, and this sometimes requires decisions about what to look for. The scientific processes carried out by the most eminent scientists in the past are the same ones followed by working chemists today and, crucially, are also accessible to students in schools. The body of scientific knowledge has grown and complexity, and the tools and skills of theoretical and experimental chemistry have become so specialized, that it is difficult (if not impossible) to be highly proficient in both areas. While students should be aware of this, they should also know that the free and rapid interplay of theoretical ideas and experimental results in the public scientific literature maintains the crucial link between these fields.

The DP chemistry course includes the essential principles of the subject but also, through selection of an option, allows teachers some flexibility to tailor the course to meet the needs of their students. The course is available at both standard level (SL) and higher level (HL), and therefore accommodates students who wish to study chemistry as their major subject in higher

education and those who do not.

At the school level both theory and experiments are undertaken by all students. They should complement one another naturally, as they do in the wider scientific community. The Diploma Programme chemistry course allows students to develop traditional practical skills and techniques and to increase facility in the use of mathematics, which is the language of science. It also allows students to develop interpersonal skills, and digital technology skills, which are essential in 21st century scientific endeavor and are important life-enhancing, transferable skills.

Distinction between SL and HL

Chemistry students at standard level (SL) and higher level (HL) undertake a common core syllabus, a common internal assessment (IA) scheme and have some overlapping elements in the option studied. They are presented with a syllabus that encourages the development of certain skills, attributes and attitudes, as described in the “Assessment objectives” section of this guide. While the skills and activities of group 4 science subjects are common to students at both SL and HL, students at HL are required to study some topics in greater depth, in the additional higher level (AHL) material and in the common options. The distinction between SL and HL is one of breadth and depth.

Data booklet

The data booklet must be viewed as an integral part of the chemistry programme. It should be used throughout the delivery of the course and not just reserved for use during the external assessments. The data booklet contains useful equations, constants, data, structural formulas and tables of information. In the “Syllabus content” section of the subject guide, explicit links provide direct references to information in the data booklet which will allow students to become familiar with its use and contents. It is suggested that the data booklet be used for all in-class study and school-based assessments.

Assessment components SL	Overall weighting (%)
Paper 1	20
Paper 2	40
Paper 3	20
Internal assessment	20

Assessment components HL	Overall weighting (%)
Paper 1	20
Paper 2	36
Paper 3	24
Internal assessment	20

Computer science



Computer science requires an understanding of the fundamental concepts of computational thinking as well as knowledge of how computers and other digital devices operate.

The Diploma Programme computer science course is engaging, accessible, inspiring and rigorous. It has the following characteristics.

- draws on a wide spectrum of knowledge
- enables and empowers innovation, exploration and the acquisition of further knowledge
- interacts with and influences cultures, society and how individuals and societies behave
- raises ethical issues
- is underpinned by computational thinking. Computational thinking involves the ability to:
 - think procedurally, logically, concurrently, abstractly, recursively and think ahead
 - utilize an experimental and inquiry-based approach to problem-solving
 - develop algorithms and express them clearly
 - appreciate how theoretical and practical limitations affect the extent to which problems can be solved computationally.

During the course the student will develop computational solutions. This will involve the ability to:

- identify a problem or unanswered question
- design, prototype and test a proposed solution
- liaise with clients to evaluate the success of the proposed solution and make recommendations for future developments.

Computer science has links with subjects outside of group 4, notably information technology in a global society (ITGS), but it should be noted that there are clear differences between the subjects.

Distinction between SL and HL

While the skills and activities of computer science are common to students at both SL and HL,

students at HL are required to study additional topics in the core, a case study and extension material of a more demanding nature in the option chosen. The distinction between SL and HL is therefore one of both breadth and depth.

Additionally, the HL course has 240 hours devoted to teaching, compared with 150 hours for the SL course. Students at SL and HL in computer science study a common core consisting of:

- four topics (system fundamentals; computer organization; networks; and computational thinking, problem-solving and programming)
- one option (chosen from databases; modelling and simulation; web science; or object-oriented programming)
- one piece of internally assessed work, which includes a computational solution.

The HL course has three additional elements:

- three further topics (abstract data structures; resource management; control)
- additional and more demanding content for the option selected
- an additional externally assessed component based on a pre-seen case study of an organization or scenario; this requires students to research various aspects of the subject—which may include new technical concepts and additional subject content—in greater depth.

Assessment objectives SL	Paper 1	Paper 2	Internal assessme	Overall
1. Demonstrating knowledge and understanding	24	13	9	46
2. Applying and using	13	7	8	28
3. Constructing, analyzing, evaluating and	8	5	4	17
4. Using skills	n/a	n/a	9	9
Component weighting	45%	25%	30%	100%

Assessment objectives HL	Paper 1	Paper 2	Paper 3	Internal assessme	Overall
1. Demonstrating knowledge and understanding	21	10	9	6	46
2. Applying and using	12	6	7	5	30
3. Constructing, analyzing, evaluating and	7	4	4	3	18
4. Using skills	n/a	n/a	n/a	6	6
Component weighting	40%	20%	20%	20%	100%

Physics



Physics is the most fundamental of the experimental sciences, as it seeks to explain the universe itself from the very smallest particles—currently accepted as quarks, which may be truly fundamental—to the vast distances between galaxies.

At the school level both theory and experiments should be undertaken by all students. They should complement one another naturally, as they do in the wider scientific community. The Diploma Programme physics course allows students to develop traditional practical skills and techniques and increase their abilities in the use of mathematics, which is the language of physics.

The DP physics course includes the essential principles of the subject but also, through selection of an option, allows teachers some flexibility to tailor the course to meet the needs of their students. The course is available at both SL and HL, and therefore accommodates students who wish to study physics as their major subject in higher education and those who do not.

Distinction between SL and HL

Physics students at standard level (SL) and higher level (HL) undertake a common core syllabus, a common internal assessment (IA) scheme and have some overlapping elements in the option studied. They are presented with a syllabus that encourages the development of certain skills, attributes and attitudes, as described in the “Assessment objectives” section of the guide.

While the skills and activities of group 4 science subjects are common to students at both SL and HL, students at HL are required to study some topics in greater depth, in the additional higher level (AHL) material and in the common options. The distinction between SL and HL is one of breadth and depth.

Assessment outline—SL

Component	Overall weighting (%)
Paper 1	20

Paper 2	40
Paper 3	20
Internal assessment	20

Assessment outline—HL

Component	Overall weighting (%)
Paper 1	20
Paper 2	36
Paper 3	24
Internal assessment	20

GROUP 5

Mathematics

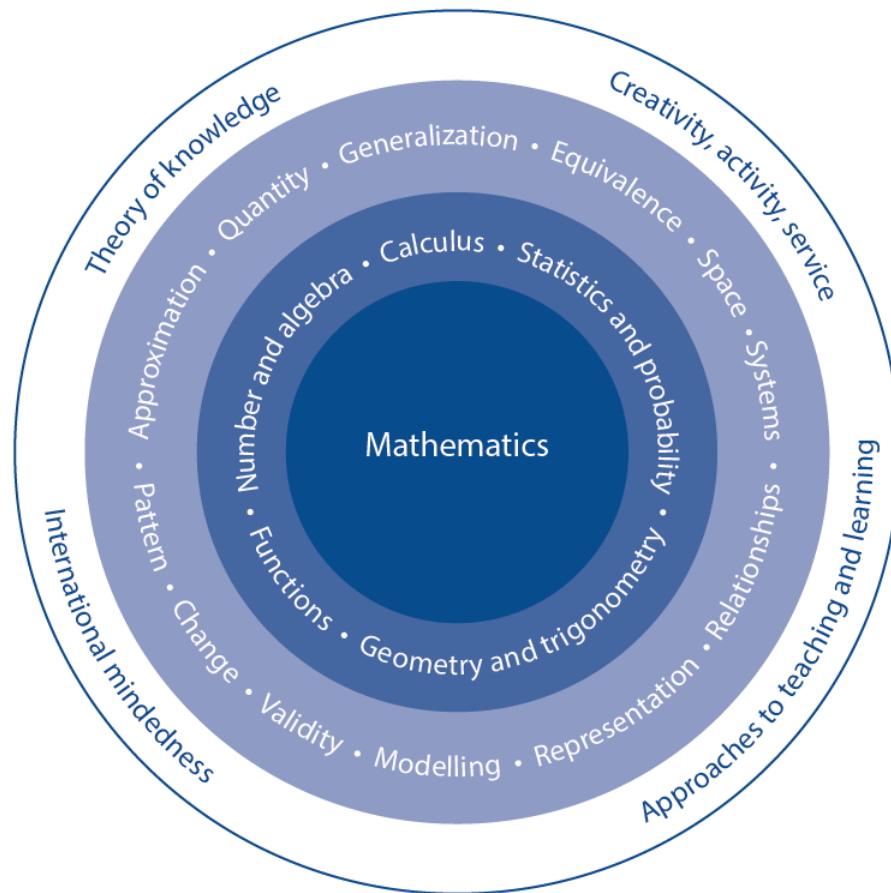
Individual students have different needs, aspirations, interests and abilities. For this reason, there are two different subjects in mathematics, each available at SL and HL. These courses are designed for different types of students: those who wish to study mathematics as a subject in its own right or to pursue their interests in areas related to mathematics, and those who wish to gain understanding and competence in how mathematics relates to the real world and to other subjects. Each course is designed to meet the needs of a particular group of students. Mathematics: analysis and approaches and Mathematics: applications and interpretation are both offered at SL and HL. Therefore, great care should be taken to select the course and level that is most appropriate for an individual student.

In making this selection, individual students should be advised to take into account the following factors:

- their own abilities in mathematics and the type of mathematics in which they can be successful
- their own interest in mathematics and those particular areas of the subject that may hold the most interest for them
- their other choices of subjects within the framework of the DP or Career-related Programme (CP)
- their academic plans, in particular the subjects they wish to study in the future
- their choice of career.

Teachers are expected to assist with the selection process and to offer advice to students.

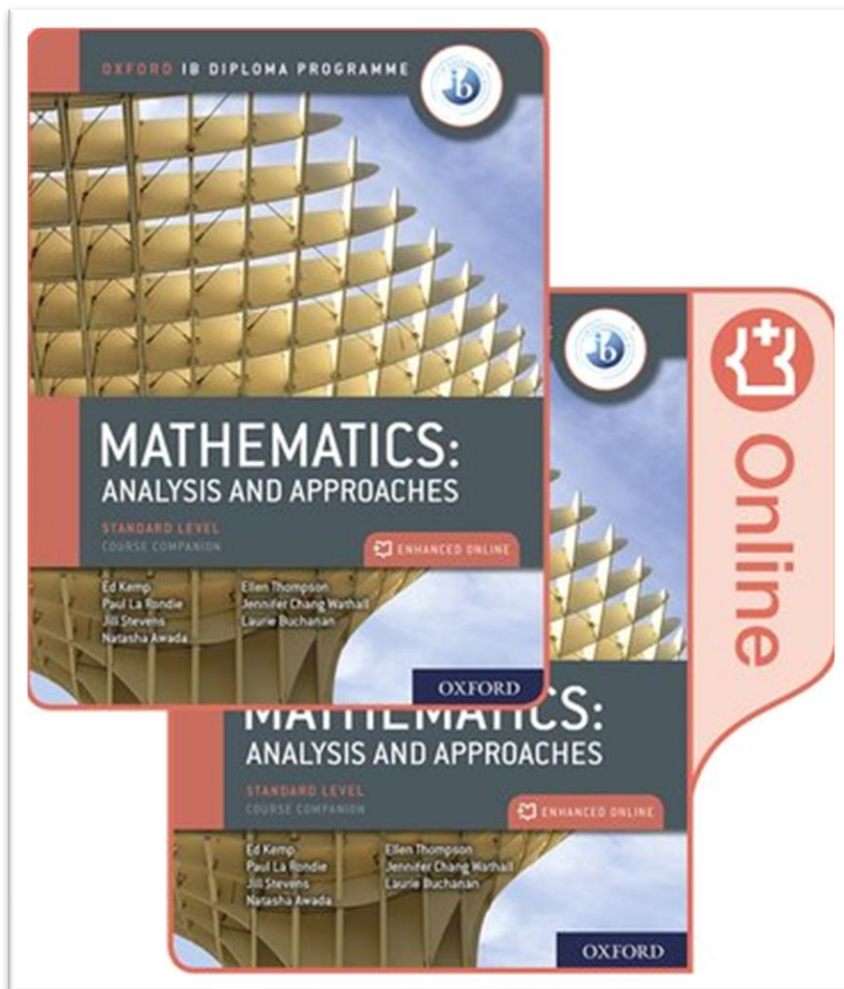
The nature of IB mathematics courses



Mathematics: analysis and approaches

This course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof, for instance the study of sequences and series at both SL and HL, and proof by induction at HL.

The course allows the use of technology, as fluency in relevant mathematical software and hand-held technology is important regardless of choice of course. However, Mathematics: analysis and approaches has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments.



Mathematics: analysis and approaches: Distinction between SL and HL

Students who choose Mathematics: analysis and approaches at SL or HL should be comfortable in the manipulation of algebraic expressions and enjoy the recognition of patterns and understand the mathematical generalization of these patterns. Students who wish to take Mathematics: analysis and approaches at higher level will have strong algebraic skills and the ability to understand simple proof. They will be students who enjoy spending time with problems and get pleasure and satisfaction from solving challenging problems. This course recognizes the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course also includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. The course makes extensive use of technology to allow students to explore and construct mathematical models. Mathematics: applications and interpretation will develop mathematical thinking, often in the context of a practical problem and using technology to justify conjectures.

Mathematics: applications and interpretation: Distinction between SL and HL

Students who choose Mathematics: applications and interpretation at SL or HL should enjoy seeing mathematics used in real-world contexts and to solve real-world problems. Students who wish to take Mathematics: applications and interpretation at higher level will have good algebraic skills and

experience of solving real-world problems. They will be students who get pleasure and satisfaction when exploring challenging problems and who are comfortable to undertake this exploration using technology.

<p>External assessment (3 hours)</p> <p>Paper 1 (90 minutes) No technology allowed. (80 marks)</p> <p><i>Section A</i> Compulsory short-response questions based on the syllabus.</p> <p><i>Section B</i> Compulsory extended-response questions based on the syllabus.</p>	<p>80%</p> <p>40%</p>
<p>Paper 2 (90 minutes) Technology required. (80 marks)</p> <p><i>Section A</i> Compulsory short-response questions based on the syllabus.</p> <p><i>Section B</i> Compulsory extended-response questions based on the syllabus</p>	<p>40%</p>
<p>Internal assessment</p> <p>This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.</p> <p>Mathematical exploration</p> <p>Internal assessment in mathematics is an individual exploration. This is a piece of written work that involves investigating an area of mathematics. (20 marks)</p>	<p>20%</p>

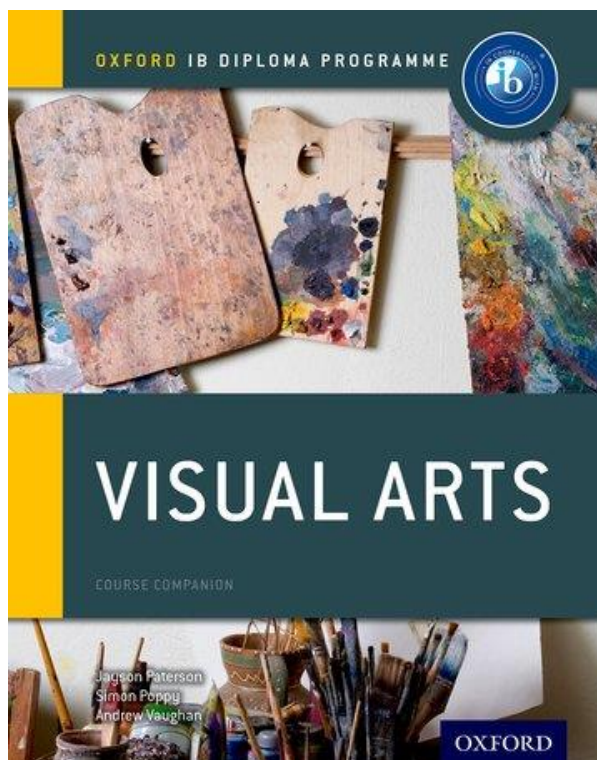
GROUP 6

Visual arts

The visual arts are an integral part of everyday life, permeating all levels of human creativity, expression, communication and understanding. They range from traditional forms embedded in local and wider communities, societies and cultures, to the varied and divergent practices associated with new, emerging and contemporary forms of visual language. They may have sociopolitical impact as well as ritual, spiritual, decorative and functional value; they can be persuasive and subversive in some instances, enlightening and uplifting in others.

We celebrate the visual arts not only in the way we create images and objects, but also in the way we appreciate, enjoy, respect and respond to the practices of artmaking by others from around the world. Theories and practices in visual arts are dynamic and ever-changing and connect many areas of

knowledge and human experience through individual and collaborative exploration, creative production and critical interpretation.



The IB Diploma Programme visual arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts.

Supporting the International Baccalaureate mission statement and learner profile, the course encourages students to actively explore the visual arts within and across a variety of local, regional, national, international and intercultural contexts. Through inquiry, investigation, reflection and creative application, visual arts students develop an appreciation for the expressive and aesthetic diversity in the world around them, becoming critically informed makers and consumers of visual culture.

Distinction between SL and HL

The visual arts syllabus demonstrates a clear distinction between the course at SL and at HL, with additional assessment requirements at HL that allow for breadth and greater depth in the teaching and learning. The assessment tasks require HL students to reflect on how their own work has been influenced by exposure to other artists and for them to experiment in greater depth with additional artmaking media, techniques and forms. HL students are encouraged to produce a larger body of resolved works and to demonstrate a deeper consideration of how their resolved works communicate with a potential viewer.

Assessment

SL

External assessment **60%**

Part 1: Comparative study **20%**

Students at SL analyze and compare different artworks by different artists. This independent critical and contextual investigation explores artworks, objects and artifacts from differing cultural contexts.

- SL students submit 10–15 screens which examine and compare at least three artworks, at least two of which should be by different artists. The work selected for comparison and analysis should come from contrasting contexts (local, national, international and/or intercultural).
- SL students submit a list of sources used.

Part 2: Process portfolio **40%**

Students at SL submit carefully selected materials which evidence their experimentation, exploration, manipulation and refinement of a variety of visual arts activities during the two-year course.

- SL students submit 9–18 screens which evidence their sustained experimentation, exploration, manipulation and refinement of a variety of art-making activities. For SL students the submitted work must be in at least **two** art-making forms, each from separate columns of the art-making forms table.

Internal assessment

This task is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Part 3: Exhibition **40%**

Students at SL submit for assessment a selection of resolved artworks from their exhibition. The selected pieces should show evidence of their technical accomplishment during the visual arts course and an understanding of the use of materials, ideas and practices appropriate to visual communication.

- SL students submit a curatorial rationale that does not exceed 400 words.
- SL students submit 4–7 artworks.
- SL students submit exhibition text (stating the title, medium, size and intention) for each selected artwork.

SL students must submit two photographs of their overall exhibition. These exhibition photographs provide an understanding of the context of the exhibition and the size and scope of the works. While the photographs will not be used to assess individual artworks, they also give the moderator insight into how a candidate has considered the overall experience of the viewer in their exhibition.

HL

External assessment **60%**

Part 1: Comparative study **20%**

Students at HL analyze and compare different artworks by different artists. This independent critical and contextual investigation explores artworks, objects and artefacts from differing cultural contexts.

- HL students submit 10–15 screens which examine and compare at least three artworks, at least two of which need to be by different artists. The works selected for comparison

and analysis should come from contrasting contexts (local, national, international and/or intercultural).

- HL students submit 3–5 additional screens which analyze the extent to which their work and practices have been influenced by the art and artists examined.
- HL students submit a list of sources used.

Part 2: Process portfolio

40%

Students at HL submit carefully selected materials which evidence their experimentation, exploration, manipulation and refinement of a variety of visual arts activities during the two-year course.

- HL students submit 13–25 screens which evidence their sustained experimentation, exploration, manipulation and refinement of a variety of art-making activities. For HL students the submitted work must have been created in at least **three** art-making forms, selected from a minimum of two columns of the art-making forms table.

Internal assessment

40%

This task is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Part 3: Exhibition

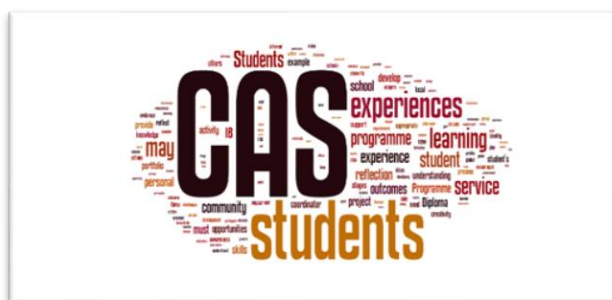
Students at HL submit for assessment a selection of resolved artworks from their exhibition. The selected pieces should show evidence of their technical accomplishment during the visual arts course and an understanding of the use of materials, ideas and practices appropriate to visual communication.

- HL students submit a curatorial rationale that does not exceed 700 words.
- HL students submit 8–11 artworks.
- HL students submit exhibition text (stating the title, medium, size and intention) for each selected artwork.

HL students must submit two photographs of their overall exhibition. These exhibition photographs provide an understanding of the context of the exhibition and the size and scope of the works. While the photographs will not be used to assess individual artworks, they also give the moderator insight into how a candidate has considered the overall experience of the viewer in their exhibition.

IB Diploma Programme Core

Creativity, Activity, Service (CAS)



CAS is at the heart of the Diploma Programme. With its holistic approach, CAS is designed to

strengthen and extend students' personal and interpersonal learning from the PYP and MYP. CAS is organized around the three strands of **creativity, activity** and **service** defined as follows.

- **Creativity**— exploring and extending ideas leading to an original or interpretive product or performance
- **Activity**—physical exertion contributing to a healthy lifestyle
- **Service**—collaborative and reciprocal engagement with the community in response to an authentic need

As a shining beacon of our values, CAS enables students to demonstrate attributes of the IB learner profile in real and practical ways, to grow as unique individuals and to recognize their role in relation to others. Students develop skills, attitudes and dispositions through a variety of individual and group experiences that provide students with opportunities to explore their interests and express their passions, personalities and perspectives. CAS complements a challenging academic programme in a holistic way, providing opportunities for **self-determination, collaboration, accomplishment** and **enjoyment**.

CAS enables students to enhance their personal and interpersonal development. A meaningful CAS programme is a journey of discovery of self and others. For many, CAS is profound and life-changing. Each individual student has a different starting point and different needs and goals. A CAS programme is, therefore, individualized according to student interests, skills, values and background.

Aims

The CAS programme aims to develop students who:

- enjoy and find significance in a range of CAS experiences
- purposefully reflect upon their experiences
- identify goals, develop strategies and determine further actions for personal growth
- explore new possibilities, embrace new challenges and adapt to new roles
- actively participate in planned, sustained, and collaborative CAS projects
- understand they are members of local and global communities with responsibilities towards each other and the environment.



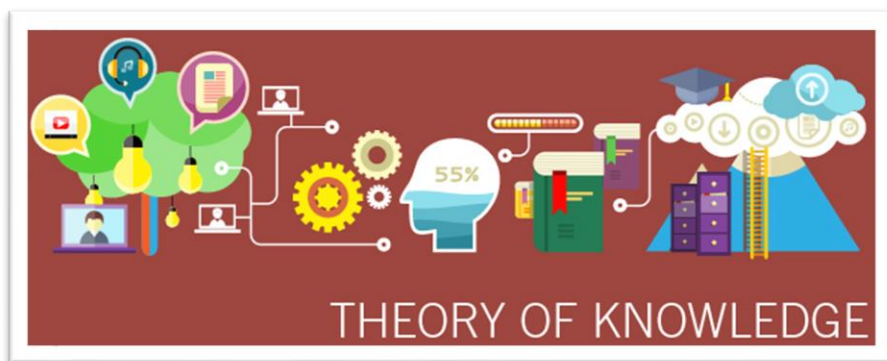
CAS Learning outcomes

Student completion of CAS is based on the achievement of the seven CAS learning outcomes realized through the student's commitment to his or her CAS programme over a period of 18 months. These learning outcomes articulate what a CAS student is able to do at some point during his or her CAS programme. Through meaningful and purposeful CAS experiences,

students develop the necessary skills, attributes and understandings to achieve the seven CAS learning outcomes.

Theory of Knowledge (TOK)

The TOK course provides students with an opportunity to **explore and reflect on the nature of knowledge and the process of knowing**. It is a core element of the DP to which schools are required to devote at least 100 hours of class time. In TOK, students reflect on the knowledge, beliefs and opinions that they have built up from their years of academic studies and their lives outside the classroom.



The course centres on the exploration of knowledge questions, which are a key tool for both teachers and students.

The TOK curriculum is made up of three deeply interconnected parts.

- **The core theme—Knowledge and the knower:** This theme encourages students to reflect on themselves as knowers and thinkers, and to consider the different communities of knowers to which we belong.
- **Optional themes:** This element provides an opportunity to take a more in-depth look at two themes of particular interest to teachers and students. The given themes all have a significant impact on the world today and play a key role in shaping people's perspectives and identities. Teachers select two optional themes from a choice of five: knowledge and technology; knowledge and language; knowledge and politics; knowledge and religion; and knowledge and indigenous societies.
- **Areas of knowledge:** The areas of knowledge (AOK) are specific branches of knowledge, each of which can be seen to have a distinct nature and sometimes use different methods of gaining knowledge. In TOK, students explore five compulsory areas of knowledge: history; the human sciences; the natural sciences; mathematics; and the arts.

There are **two assessment tasks** in the TOK course.

- **The TOK exhibition** assesses the ability of the student to show how TOK manifests in the world around us. The exhibition is an internal assessment component; it is marked by the teacher and is externally moderated by the IB.
- The TOK essay engages students in a more formal and sustained piece of writing in response to a title focused on the areas of knowledge.

Assessment component

Internal assessment

Theory of knowledge exhibition

For this component, students are required to create an exhibition that explores how TOK manifests in the world around us. This component is internally assessed by the teacher and externally moderated by the IB at the end of the course.

Weighting - 1/3 (33%)

External assessment

TOK essay on a prescribed title

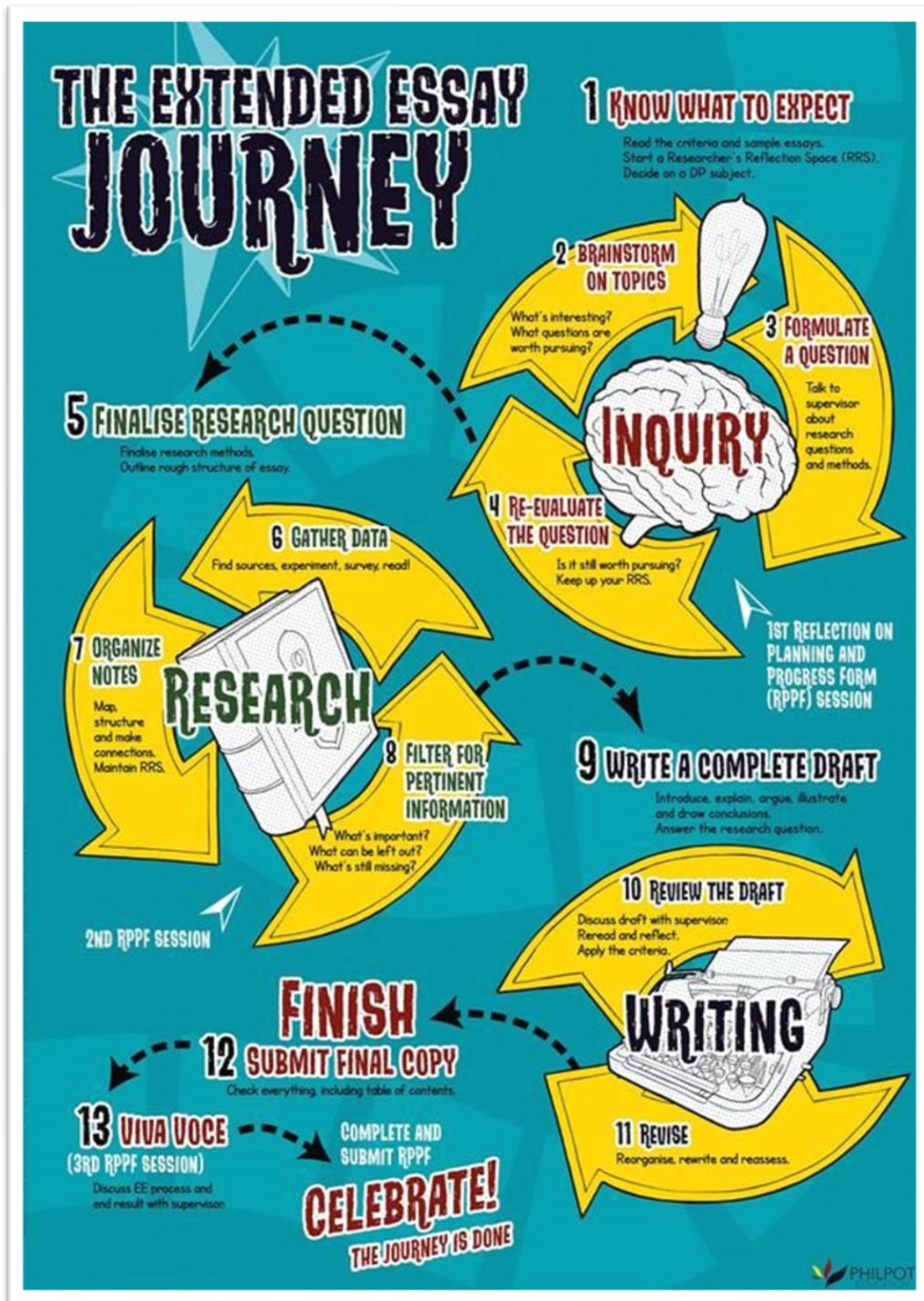
The essay is an external assessment component. The essay must be a maximum of 1,600 words and must be on one of the six prescribed titles issued by the IB for each examination session. As an external assessment component, it is marked by IB examiners.

Weighting - 2/3 (67%)

EXTENDED ESSAY (EE)

The extended essay is an in-depth study of a focused topic chosen from the list of available Diploma Programme subjects for the session in question. This is normally one of the student's six chosen subjects for those taking the IB diploma, or a subject that a course student has a background in. It is intended to promote academic research and writing skills, providing students with an opportunity to engage in personal research in a topic of their own choice, under the guidance of a supervisor (an appropriately qualified member of staff within the school). This leads to a major piece of formally presented, structured writing, in which ideas and findings are communicated in a reasoned and coherent manner, appropriate to the subject chosen. It is mandatory that all students undertake three reflection sessions with their supervisor, which includes a short, concluding interview, or *viva voce*, with their supervisor following the completion of the extended essay.

The extended essay is a unique opportunity for students to explore an academic area in which they have a personal interest. This takes the form of an independently written research paper that allows students to demonstrate their passion, enthusiasm, intellectual initiative and/or creative approach for their chosen topic. Students develop important transferable skills such as research, critical thinking, and self-management, which are communicated in the form of an academic piece of writing. Emphasis is placed on engagement and reflection on the research process, highlighting the journey the student has made on an intellectual and personal level and how it has changed them as a learner and affected the final essay.



In a disciplinary essay students must demonstrate their knowledge and understanding of the theories, tools and techniques of a specific discipline explored through a topic of their choice. An important aim of the extended essay, as part of the Diploma Programme core is to support and be supported by the academic disciplines. Whichever subject is chosen, the extended essay is concerned with exploring a specific research question through interpreting and evaluating evidence and constructing reasoned arguments. In undertaking the extended essay students model many of the elements of academic research by locating their topic within a broader disciplinary context, or issue in the case of a world studies extended essay, justifying the relevance of their research and critically evaluating the

overall strength of the arguments made and sources used. Guided through this process by a supervisor, students are encouraged to reflect on insights gained, evaluate decisions, and respond to challenges encountered during the research.

- The extended essay is compulsory for all students taking the Diploma Programme.
- The extended essay is externally assessed and, in combination with the grade for theory of knowledge, contributes up to three points to the total score for the IB Diploma.
- The extended essay process helps prepare students for success at university and in other pathways beyond the Diploma Programme.
- It is presented as a formal piece of sustained academic writing containing no more than 4,000 words accompanied by a reflection form of no more than 500 words.
- It is the result of approximately 40 hours of work by the student.
- Students are supported by a supervision process recommended to be 3–5 hours, which includes three mandatory reflection sessions.

ADMINISTRATIVE REGULATIONS

DRESS CODE

At European School a uniform is required. Students are required to come to school in uniform, which consists of white shirts, black vests/jacket, black trousers or black skirts for girls and optional grey ties.

Wearing denim/jeans is not allowed. Students can wear shoes of their choice in which they can feel comfortable and safe.

No headwear is allowed to be worn in the school buildings. All students will be asked to remove headgear/jewelry should it be necessary for safety or hygiene reasons. Students are encouraged to tie up long hair.

Dress code during remote learning is freestyle but in accordance to academic environment.

MOBILE PHONES

Notebook computers are recommended to be used for academic purposes. It is strongly recommended to keep mobile phones in school lockers or in their bags. Usage of mobiles or other devices that may distract student's attentiveness during lessons is restricted unless necessary for academic purpose upon DP Coordinator's discretion.

In case of disobedience, teachers have the right to take a certain device away from them and return it back at the end of the day. The school cannot be held responsible for the loss of or damage to valuable electronic equipment.

ELECTRONIC DEVICES AND HEADPHONES

Students may use laptop computers, tablets and similar purpose devices in the school for academic purposes only.

Wearing headphones in the school is not allowed. A student may wear headphones only for academic purposes if allowed by a teacher during a lesson, or in the library.

GENERAL BEHAVIOUR RULES FOR REMOTE LEARNING

- Students have to attend online lessons according to the European School's schedule;
- Students have to be on time in the online lessons;
- Students have to prepare all necessary materials/equipment in advance;
- Students have to follow the teacher's instructions unconditionally;
- Video calls should only be started by the teacher when starting the online lessons;
- Students have to switch their cameras on during the online lessons;
- Students have to greet the other participants in polite way and be always polite and positive during the online lessons;
- Students aren't allowed to use slang or profanity in their communication;
- Students have to switch off the microphone, while another student is speaking during the online lessons;
- Students have to use chat only with the teacher's permission to ask/answer questions;
- Students have to chat only for academic and educational purposes;
- Students have to switch off their mobile phones and they aren't allowed to use computers inappropriately;
- Students aren't allowed to communicate in social networks during the online lessons;
- Students have to use only earphones during the online lessons;
- Students aren't allowed to change personal or any other participant's profile pictures;
- Students aren't allowed to use nicknames for profiles. They have to use their ManageBac names;
- Students aren't allowed to mute/unmute/add/remove other participants;
- Students aren't allowed to leave the online lesson without the teacher's permission;
- Students/helpers have to notify their teacher in case of having any technical problem during or after the online lessons;
- Students have to end their video call by the end of the online lessons;
- Students have to be isolated during the online lessons and with the parent or other helper, if necessary;
- Students have to be isolated with a neutral background in order to protect the personal information of the student's family;
- For a smooth online learning process, the student's parent / legal representative is responsible for providing the student with all the necessary equipment such as a personal computer / laptop, camera and headphones;
- Students have to sit at the table. Learning from a sofa or bed is not allowed;
- Students aren't allowed to eat or drink during the online lessons;
- Students during the online lessons have to be dressed in an academic way;
- During the online lessons photo/video recording and subsequent distribution is prohibited for the purposes of protecting the personal information of the persons involved in the process;
- Students have to be aware of the fact that the online learning process is analogous to the traditional learning method and in order to carry out the process successfully they have to comply with the general rules set by the European school.

Consequences:

In case of inappropriate and/or disruptive behavior during the online lessons, students have to immediately inform the teachers about the incident.

1. The teachers have to write a note, make it visible for parents, email them and make sure they receive the information;

2. The teachers have to monitor process and discuss every case with a student, his/her parents and coordinator;

In case there are further disruptive behavior incidents (more than 3 cases), the school has to involve the Head of Department and limit or even restrict the participation of the “disruptive students” in online lessons.

DISCIPLINARY VIOLATIONS AND CONSEQUENCES

For more details please see European School Behaviour Policy.

ROLE OF PARENTS AND SCHOOL STAFF MEMBERS

Parents play an important role in ensuring their child’s adherence to the disciplinary policy. Parents can assist by encouraging their child to be punctual to prevent lateness for classes and studying, to follow the dress code and act appropriately. The school administration recommends parents to be aware of the school disciplinary principles; keep in close contact with the homeroom teacher, subject teachers and educators as well. Parents may contact to the school administration if necessary.

HOMEROOM TEACHER AND EDUCATORS

The homeroom teacher is a key figure in the relationship between parents and the school regarding student disciplinary matters. Homeroom teacher introduce the Disciplinary Policy to students and parents, supervise and correct students’ behavior, and keep in constant contact with subject teachers.

PARENT-TEACHER ASSOCIATION

The Parent-Teacher Association (PTA) aims to enhance the experiences and welfare of students and parents whilst at the European School. The main objectives of the PTA are to:

- encourage parental involvement in a range of school events
- strengthen the relationships among parents, students, staff, leadership and the board
- facilitate the flow of information between the parents and the European School administration.

The PTA also actively supports the European School community by planning, coordinating and running various social and fundraising events and activities that promote a sense of community at the school while raising funds to support activities and purchases that will enhance the educational opportunities offered to our students.

We hold monthly PTA meetings, where all parents are welcome to attend and take part in a discussion about school-related issues together with participating teacher representatives.

Every parent who enrolls a student at the European School is automatically a member of the PTA.

In order to efficiently coordinate and carry out PTA projects, a PTA Committee is elected every school year. At the European School, we have three PTA Committees-Georgian, IB, AHS committees. Each is led by a Chairperson-parent representative elected for one-year term.

There are many ways to get involved in the PTA and we are always looking for new ideas. Please join us or contact coordinators for more information.

SCHOOL SECURITY AND SAFETY

There's nothing more important than ensuring the safety of our students and staff members. It's important to take precautions when they're at school. For the safety of our children, staff members and visitors we employ a full range of security tools and systems that include:

Security Guards

To ensure school security and security of our students we have properly trained security guards who are able to take necessary steps at right time and safeguard the children at the European School. Our security guards conduct the following activities.

Campus Patrol

Guards set patrol posts at the school' lookout points and inside the building to maintain the protection level. One security guard keeps a watch on all the corners of the schools through the central camera while sitting in his place at the entry point. The entry and exit points are secured 24/7. The security guards carry out random security checks to keep the school premises free from prohibited items.

The security guards accompany students on school trips, they watch if the students get into school buses properly, they resolve fights between students, protect the kids on campus from various hazards. They respond to Emergency Situations

The security guards know how to act at the time of emergency, they are able to vacate the school at the earliest without causing chaos and panic among the students, they are also responsible for making a call to the fire authorities and hospitals in case of an emergency.

Access Control Systems

Access Control Systems help us to protect the school entrances by preventing unauthorized persons from entering the school buildings. It is maintained via various elements of Access Control Systems, such as turnstile, swipe cards, video monitoring of access points.

Visitor management systems employed at the school also help deter unwanted persons from entering a school.

CCTV monitoring

CCTV (closed circuit television) is a valuable resource in school security systems. Video cameras monitor areas within the school, such as common areas, laboratories, hallways, locker areas, stairwells and cafeterias. Exterior cameras can monitor all building perimeters, fences, gates and parking lots. Our security personnel can quickly identify suspicious activity by employing information, received from camera systems.

Fire Alarm Systems

We installed a fire alarm system necessary to preserve the life safety of people on our school grounds. We integrate these systems with alarms in every classroom, offices, laboratories. The school carries out drills with students so they're aware of emergency procedures. We educate staff about where sprinklers are located throughout the school, so they know how to react appropriately. Annual drills and various exercises are being planned to ensure the viability of our systems and staff readiness. Every exit point is clearly visible and identifiable and ensures everyone gets out quickly and safely.

SCHOOL MEDICAL SERVICES

European School has a full-time qualified and registered doctor. The doctor is not only available to meet students' immediate medical needs but also to advise the Wellbeing Team on health-related issues.

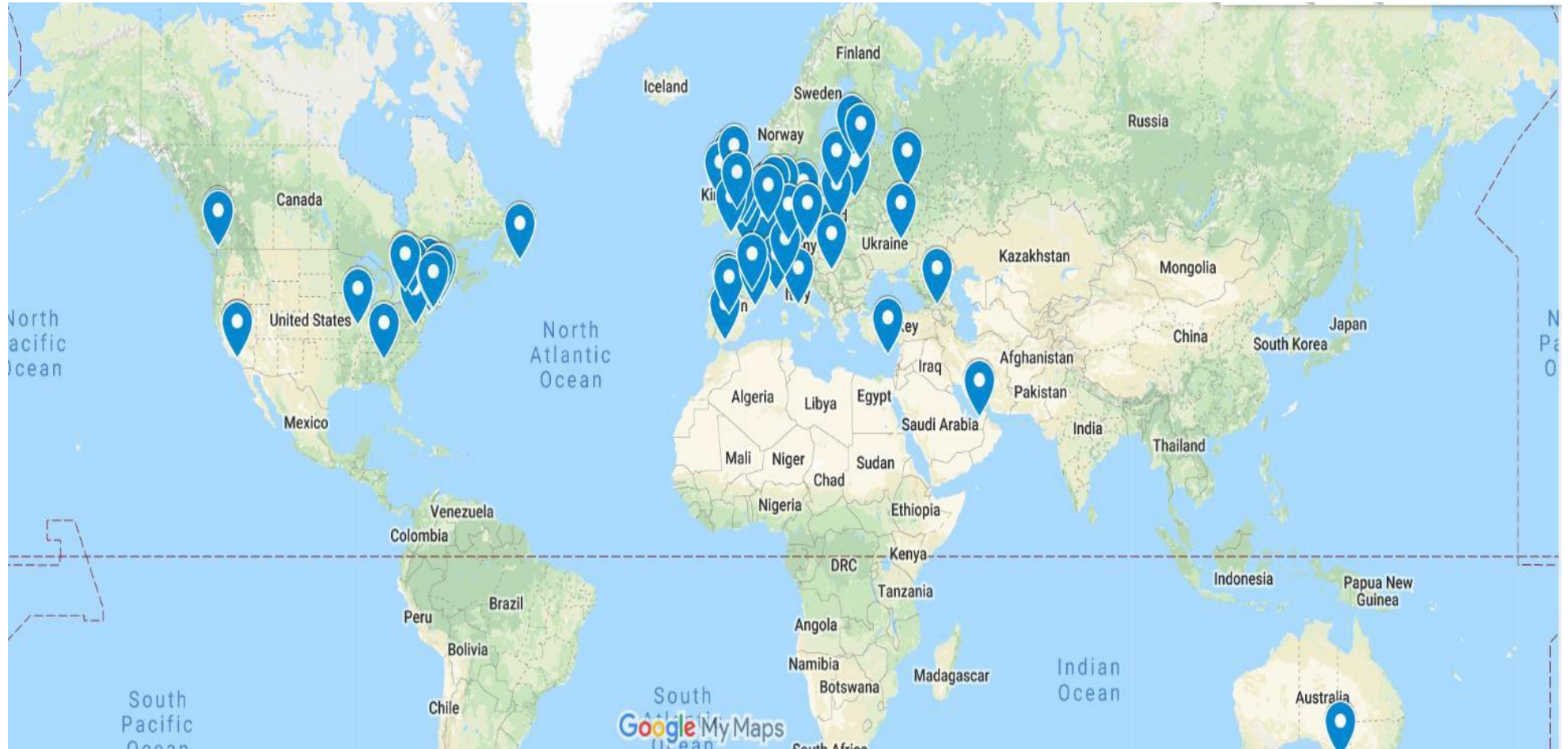
The doctor also liaises with external organizations and ensures that ISP meets all our medical obligations with regards to Georgian law. Parents should inform both the classroom teacher and the Doctor of special health information. It is essential for us to know of any allergies, short- or long-term health problems or medical conditions. If your child needs specific medication during the day, it is important to communicate the administration of medication needs, accompanied by a valid prescription, to the school nurse, teachers, and assistants, who are also primary responders, in the nurse's absence. The school will contact you in the case of illness or an injury that may require further observation at home. Please inform Reception immediately of any change in your contact details. Illness If your child has any contagious illness, please notify Reception as soon as possible. This includes measles, mumps, scarlet fever, and chicken pox. Lice and ringworm are also to be reported.



VALUABLES AND LOST & FOUND

Students are asked not to bring valuables to school. Occasionally, students may wish to bring valuable items to school as part of a project or if relevant to school-related work. Under these circumstances, any valuables should be given to the teacher for safe keeping. Unless items are deposited with the school office, the school is not responsible for the loss or theft of valuables. A lost and found box is kept on the first floor next to the elevator. We ask that all your child's articles be clearly labeled with his/her name. The school takes no responsibility for lost belongings. School keeps found items for a long period of time (approximately 1 academic year). After this time all unclaimed items are given to charity.

EUROPEAN SCHOOL ALUMNI IN THE WORLD



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My IB – Programme Resource Centre