



CANADIAN
INTERNATIONAL
SCHOOL

Bangalore, INDIA

IGCSE COURSE DESCRIPTION BOOKLET

COURSE DESCRIPTION BOOKLET

THE IGCSE PROGRAMME.
INTERNATIONAL GENERAL CERTIFICATE OF SECONDARY EDUCATION



Cambridge Assessment
International Education

Cambridge International School

FOR GRADES 9 & 10

Cambridge
IGCSE

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DEFINITION OF LEARNING

Learning at CIS is a transformative process that leads to conceptual understanding, demonstration of competencies through application, and character development as seen through the CIS Core Values.

MISSION STATEMENT

CIS is a culturally-rich mosaic serving each student by providing a world-class international education, nurturing potential, developing life-long skills, and preparing students for an ever-changing global community.

OUR MOTTO

Shaping the Future....Together! Today!

VISION STATEMENT

Canadian International School strives to be recognized as one of the finest educational institutions in East Asia.

CORE VALUES

INTEGRITY

At CIS, Integrity is a guiding principle:

- Integrity in academics
- Integrity in relationships
- Integrity in decision-making

We strive to be guided by strong moral principles in all that we do.

INSPIRATION

At CIS, Inspiration is a guiding principle:

- Inspiring each other
- Inspiring the love of learning
- Inspiring confidence
- Inspiring to be the change

We strive to unlock the unlimited potential of the entire CIS community.

RESPECT

At CIS, Respect is a guiding principle:

- Respect for individuality
- Respect for community
- Respect for diversity
- Respect for our environment

CARING

At CIS, Caring is a guiding principle:

- Caring for self
- Caring for each other
- Caring for the social, emotional, and academic needs of all students
- Caring for the global community

We strive to act with empathy and kindness towards each other and the changing World around us.

JOY

At CIS, Joy is a guiding principle:

- Joy of learning
- Joy of teaching
- Joy of discovering,
- Joy of connecting with our school, our community and the World beyond.

We strive to harmonize hard work, achievement and fun!

INTERNATIONAL AWARD FOR YOUNG PEOPLE (DEAS)

The Goal of the program is to prepare global leaders and citizens for tomorrow by shaping the overall personality of the youth by moving them out of their comfort zones.

The award is about experiencing learning through individual challenges. All grade 09 students (age 14 yr) will be enrolled into the program for the Bronze level. Students are encouraged to choose appropriate activities through the Monday/Tuesday clubs and log their activities for the program through the online portal of IAYP. Award leaders guide the students throughout the journey.

This award is recognised world over and adds to the portfolio of the students.

INTRODUCTION

WHAT IS IGCSE?

Cambridge IGCSE is the world's most popular international curriculum for 14 to 16 year olds, leading to globally recognized and valued Cambridge IGCSE qualifications. Schools worldwide have helped develop Cambridge IGCSE, which provides excellent preparation for the IB diploma course. Cambridge IGCSE encourages learner centred and inquiry-based approaches to learning. It develops learners' skills in creative thinking, inquiry and problem solving, giving students excellent preparation for the next stage in their education. Cambridge IGCSE is compatible with other curricula and is internationally relevant and sensitive to different needs and cultures.

WHY IGCSE?

- Acknowledged to be the most popular international qualification.
- Administered and examined by CAIE (Cambridge Assessment International Examinations), UK.
- Covers a modern curriculum that addresses global educational needs.
- Prepares students with a strong foundation for the IBDP (International Baccalaureate Diploma) program.
- Stands recognized by global universities and colleges.
- Encourages the participation of all nationalities from English medium international schools, worldwide.
- Encourages the participation of all abilities (Grades A*-G)

THE PURPOSE OF THIS INFORMATION BOOKLET:

The IGCSE Information given in this booklet should help you to become more familiar with the expectations, structure and content of each IGCSE subject offered at CIS. Should you have any further queries, please contact subject teachers for subject specific enquiries or **Mrs. Sita Venkataraman** for exam-related questions (igcse-coordinator@cisb.org.in).

Some of the subjects offered at CIS can be taken either at Core or at Extended level. For the Core level, the highest grade a candidate can achieve is a Grade C. For Extended level, the best grade a candidate can achieve is Grade A*. Subject teachers will consult with students and parents to make a recommendation for which paper the candidate should be entered for during Grade 10. This will be based on their achievement on the course so far and bearing in mind the long term goal of International Baccalaureate Diploma or further education courses. Every effort has been made to make the information here accurate at the time of writing.

Cambridge has the right to change its assessment methods and syllabi as well as administrative guidelines therefore some information may be subject to change.

IGCSE OPTION BLOCK FOR STUDENT ENTERING GRADE 9

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5
<ul style="list-style-type: none"> • ENGLISH LANGUAGE AND LITERATURE • ENGLISH AS A SECOND LANGUAGE 	<ul style="list-style-type: none"> • HINDI • FRENCH • SPANISH • CHINESE MANDARIN 	<ul style="list-style-type: none"> • ADDITIONAL MATHEMATICS • CAMBRIDGE INTERNATIONAL MATHEMATICS 	<ul style="list-style-type: none"> • COORDINATED SCIENCES 	<ul style="list-style-type: none"> • GENERAL PHYSICAL EDUCATION

GROUP 6	GROUP 7	GROUP 8
<ul style="list-style-type: none"> • ART & DESIGN • MUSIC • DRAMA 	<ul style="list-style-type: none"> • INFORMATION & COMMUNICATION TECHNOLOGY • DESIGN TECHNOLOGY • COMPUTER SCIENCE 	<ul style="list-style-type: none"> • ECONOMICS • GLOBAL PERSPECTIVES • BUSINESS STUDIES • ENVIRONMENTAL MANAGEMENT

NAME OF THE COURSE:

First Language English (0500)

COURSE DESCRIPTION:

Cambridge IGCSE First Language English is designed for learners whose first language is English. Cambridge IGCSE First Language English learners develop the ability to communicate clearly, accurately and effectively in both speech and writing. They learn how to employ a wide-ranging vocabulary, use correct grammar, spelling and punctuation, and develop a personal style and an awareness of the audience being addressed.

TOPIC AREAS:

- Analysis
- Communication Skills
- Summary
- Language Development

FINAL ASSESSMENT:**Core**

- Paper 1 – Reading Comprehension, Extended response, Summary, Effects of language

Extended

- Paper 2- Directed Writing and Composition

Notes: If you have any questions regarding the subject, please contact **Ms. Adina Cuxton (acuxton@cisb.org.in)**; **Ms. Archana Jha (archana@cisb.org.in)**; **Ms Devika Varma (dvarma@cisb.org.in)** ; **Ms Kathleen Fisher (Jnelle@cisb.org.in)**

NAME OF THE COURSE:

Literature (English) - 0475

COURSE DESCRIPTION:

Cambridge IGCSE Literature (English) aims to develop learners who:

- Enjoy the experience of reading literature

- Understand and respond to literary texts in different forms and from different periods and cultures
- Communicate an informed personal response appropriately and effectively
- Appreciate different ways in which writers achieve their effects
- Experience literature's contribution to aesthetic, imaginative and intellectual growth
- Explore the contribution of literature to an understanding of areas of human concern.

TOPIC AREAS:**Component 1- Poetry and Prose**

Poetry: From Songs of Ourselves Volume 1, Part 3, the following 15 poems

- Maya Angelou, 'Caged Bird'
- Elizabeth Barrett Browning, 'Sonnet 43'
- James K Baxter, 'Farmhand'
- Sujata Bhatt, 'Muliebrity'
- Isobel Dixon, 'Plenty'
- Rosemary Dobson, 'The Three Fates'
- Robert Hayden, 'Those Winter Sundays'
- Seamus Heaney, 'Mid-Term Break'
- Mervyn Morris, 'Little Boy Crying'
- Norman Nicholson, 'Rising Five'
- Adrienne Rich, 'Amends'
- Edna St Vincent Millay, 'Sonnet 29'
- Dennis Scott, 'Marrysong'
- Stevie Smith, 'Not Waving But Drowning'
- William Wordsworth, 'She Dwelt Among the Untrodden Ways'

These may be found in Songs of Ourselves Volume 1: The University of Cambridge International Examinations Anthology of Poetry in English (Cambridge University Press).

Prose: Short Stories

From Stories of Ourselves, the following 10 stories:

- Langston Hughes, Thank You M'am
- O Henry, The Furnished Room

- Nathaniel Hawthorne, Dr Heidegger's Experiment
- Henry Handel Richardson, And Women Must Weep
- Sharmaji, Anjana Appachana
- Mrs Mahmoo, Segun Afolabi
- The Widow's Might, Charlotte Perkins Gilman

A Thousand Years of Good Prayers, Yiyun Li

2 - Drama

- Twelfth Night by William Shakespeare
- The Crucible by Arthur Miller

FINAL ASSESSMENT:

Component 1

Paper 1 - 50%

Paper 2 - 50%

Notes: If you have any questions regarding the subject, please contact **Ms. Adina Cuxton (acuxton@cisb.org.in); Ms. Archana Jha (archana@cisb.org.in); Ms Devika Varma (dvarma@cisb.org.in) ; Ms J'nelle Bobb Semple (Jnelle@cisb.org.in)**

NAME OF THE COURSE:

English as a Second Language (0510/0511)

COURSE DESCRIPTION:

IGCSE Second Language English is designed as a two-year course for students who already have a working knowledge of the language, and want to consolidate their understanding in order to progress in their academic or professional career. Cambridge qualifications develop successful students. They not only build understanding and knowledge required for progression, but also learning and thinking skills that help students become independent learners and equip them for life.

Cambridge IGCSE English as a Second Language is accepted by universities and employers as proof of ability to understand and communicate in English. It is aimed at students whose first language is not English, but who use it as a lingua franca or language of study.

Successful English as a Second Language candidates have better educational or employment prospects and gain lifelong skills, including:

- Better communicative ability in English
- Improved ability to understand a range of social registers and styles
- A greater awareness of the nature of language and language-learning skills
- A greater international perspective
- A sound foundation for progression to employment or further study at levels 2 and 3 including AS and A level GCE, and Cambridge pre-u qualifications

TOPIC AREAS:

Part 1 – Leisure and entertainment

(Focus on reading/writing/listening and speaking skills combined with Exam Practice questions)

Part 2 – Work and Education

(Focus on reading/writing/listening and speaking skills combined with Exam Practice questions)

Part 3 - People and Achievements

(Focus on informal/formal writing, listening and speaking skills)

Part 4 - Ideas and the Modern World

(Focus on various exam skills - note-making, summary writing, writing for purpose, listening and speaking)

FINAL ASSESSMENT:

Component 1 Core

Paper 1 (Reading and writing)

1 hour 30 minutes Eligible for grades C–G 60% of total marks

Paper 3 (Listening) Approx. 30–40 minutes Eligible for grades C–G 20 % of total mark

Extended

Paper 2 (Reading and writing) 2 hours

Eligible for grades A*–E 60% of total marks either: Or: Paper 4 Listening (Extended) Approx. 50 minutes Eligible for grades A*–E

20% of total marks either: Or:

Component 5 (Oral) – same for Core and Extended Approx. 10–15 minutes - 20% of total marks.

NOTE: In Syllabus 0510, marks for the Oral component do not contribute to the overall grade candidates receive for the written components. Instead, where candidates perform to an appropriate standard, certificates record separately the achievements of grades 1 (high) to 5 (low) for Speaking. In Syllabus 0511, marks for the Oral component contribute to 20 % of the overall grade and the listening is 20 %. If you have any questions regarding the subject, please contact **Ms. Beena Suresh Chandran <bmenon@cisb.org.in>**

NAME OF THE COURSE:

EAL (NON IGCSE SUBJECT) English as an Additional Language

COURSE DESCRIPTION:

EAL courses/In-class support focus specifically on the language and skills required to access mainstream subject areas - History, Geography, Science, and English Literature. A further objective is to ensure that students have some of the language skills required for entry into mainstream English. This is a non-examination subject.

TOPIC AREAS:

- Analysis
- Communication Skills
- Language Development

FINAL ASSESSMENT:

This is a non-examination subject. Formative assessment is done by the EAL teachers for the course work. This course is credit earning and is reported as a coursework grade only on the report cards.

Notes: If you have any questions regarding the subject, please contact **Ms Niyati Handa <nhanda@cisb.org.in >**

NAME OF THE COURSE:

French (0520)

COURSE DESCRIPTION:

Cambridge IGCSE French as a foreign language is accepted by universities and employers as proof of linguistic ability and understanding. The course encourages learners to develop lifelong skills, including:

- Develop the language proficiency required to communicate effectively in French at level A2 (CEFR Basic User), with elements of level B1 (CEFR Independent User)
- Offer insights into the culture and society of countries and communities where French is spoken
- Develop awareness of the nature of language and language learning
- Encourage positive attitudes towards speakers of other languages and a sympathetic approach to other cultures
- Provide enjoyment and intellectual stimulation
- Develop transferable skills (e.g. memorising, drawing of inferences) to complement other areas of the curriculum
- Form a sound base of the skills, language and attitudes required for progression to work or further study, either in French or another subject area.

French at CIS is taught at two levels –

- Beginner level (for those who are new to the language) and
- Standard level (for students having 1 or more years of experience).

CONTENT OVERVIEW

The subject content is organised in five broad topic areas (A–E below).

These provide contexts for the acquisition of vocabulary and the study of grammar and structures. The study of these topic areas enables students to gain an insight into countries and communities where French is spoken.

- Area A Everyday activities
- Area B Personal and Social life
- Area C The World around us
- Area D The World of Work
- Area E The International World

The syllabus gives students opportunities to develop and apply a wide range of foreign language skills. Candidates will be expected to read and understand a variety of written and spoken texts on familiar topics. Candidates will be required to demonstrate understanding of the main ideas, opinions and attitudes, as well as select and extract relevant details and deduce the meaning of occasional unknown words from context. They will also have opportunities to write in French on familiar, everyday topics, and to speak the language by taking part in everyday conversations.

ASSESSMENT OVERVIEW:

All candidates take all four papers. Candidates will be eligible for grades A* to G. All candidates take:

PAPER 1 Approximately 50 minutes

- Listening 25%
- 40 marks
- Candidates listen to a number of recordings and answer multiple-choice and matching questions.
- Externally assessed

PAPER 2 1 hour

- Reading 25%
- 45 marks
- Candidates read a number of texts and answer multiple-choice and matching questions as well as questions requiring short answers.
- Externally assessed

PAPER 3 Approximately 10 minutes

- Speaking 25%
- 40 marks
- Candidates complete one role play and

- conversations on two topics.
- Internally assessed and externally moderated

PAPER 4 1 hour

- Writing 25%
- 45 marks
- Candidates complete one form-filling task,
- one directed writing task and one task in the
- format of an email/letter

ASSESSMENT OBJECTIVES

The assessment objectives (AOs) are:

AO1 LISTENING

- L1: understand the main points and key information in simple everyday material
- L2: understand clear speech on a range of familiar topics
- L3: understand the description of events and expression of ideas, opinions and attitudes in simple texts
- L4: identify and select relevant information in predictable texts

AO2 READING

- R1: understand the main points and key information in simple everyday material
- R2: understand authentic factual texts on a range of familiar topics
- R3: understand the description of events and expression of ideas, opinions and attitudes in simple texts
- R4: identify and select relevant information in predictable texts

AO3 SPEAKING

- S1: communicate clearly and effectively in a range of predictable everyday situations
- S2: engage in conversations on familiar topics, expressing opinions and feelings
- S3: use a range of structures and vocabulary with reasonable accuracy
- S4: demonstrate some ability to maintain interaction
- S5: show some control of pronunciation and intonation

AO4 WRITING

- W1: communicate simple factual information clearly for everyday purposes
- W2: write simple phrases and sentences on a familiar topic
- W3: write simple connected texts describing events, experiences, opinions and hopes and ambitions
- W4: use a range of simple vocabulary and language structures reasonably accurately

Notes: If you have any questions regarding the subject, please contact **Alex Pope (apope@cisb.org.in)**, **Nadege Flusin (nflusin@cisb.org.in)**

NAME OF THE COURSE:

Spanish (0530)

COURSE DESCRIPTION:

Spanish Cambridge foreign language IGCSE is accepted by Universities and employers as proof of linguistic ability and understanding. The course encourages learners to develop lifelong skills, including:

- The ability to use a foreign language as a means of practical communication
- Insight into the culture and civilization of countries where the language is spoken
- A positive attitude towards language learning, towards the speakers of other languages, and towards other cultures and civilizations
- Techniques which can be applied to other areas of learning, such as analysis and memory skills
- A sound foundation for progression to employment or further study.

Spanish at CIS is taught at two levels –

- Beginner level (for those who are new to the language) and
- Standard level (for students having 1 or more years of experience).

TOPIC AREAS:

The syllabus content is organized around five broad Topic areas which provide contexts for the acquisition of vocabulary and the study of grammar and structures. Through the study of these Topic areas, candidates gain insight into target language countries and communities. The Topic areas are:

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

FINAL ASSESSMENT:

All candidates take the following four components:-

Paper 1 - Listening – 45 marks (25%)

Paper 2 - Reading – 45 marks (25%)

Paper 3 - Speaking – 100 marks (25%) – Internally assessed, externally moderated.

Paper 4 - Writing – 50 marks (25%)

Notes: If you have any questions regarding the subject, please contact **Virginia Garres <varagues@cisb.org.in>** ; **Ms Jessica Cecilia (jcrowe@cisb.org.in)**

NAME OF THE COURSE:

Hindi as a Second Language (0549)

COURSE DESCRIPTION:

Cambridge IGCSE Hindi as a Second Language is designed for learners who already have a working knowledge of the language and who want to consolidate their understanding in order to progress in their education or career.

Through their studies, learners gain an understanding of how to use Hindi effectively in the type of situations, and Hindi-speaking environments, they will encounter in their daily lives.

The syllabus focuses on the linked language skills of reading, writing, listening and speaking.

Through this syllabus, learners can achieve a level of practical communication ideal for everyday use, which can also form the basis for further, more in-depth language study.

TOPIC AREAS:

The topics selected relate to the interests and needs of the candidates in using Hindi as a Second Language, e.g. education, the world of work, current affairs, great personality, health and welfare, travel, school affairs. Spiritual, moral, ethical, social, legislative, economic and cultural issues.

FINAL ASSESSMENT:

All candidates taking Papers 1 and 2 and are eligible for the award of grades A* to G. Students will be assessed on Reading, Writing and Listening skills.

Paper 1(Reading and Writing)

Section 1: four exercises – reading, information transfer, note-making and summary writing. Section 2: two exercises – reading and writing.

Duration: 2 hours Weighting : 67%

Paper 2 (Listening)

Four exercises – comprehension and true/false. Duration: Approx. 35-45 minutes

Weighting: 33% All questions and responses are required to be in Hindi.

Notes: : If you have any questions regarding the subject, please contact **Manita Sharma <msharma@cisb.org.in**

NAME OF THE COURSE:

Chinese (0547)

COURSE DESCRIPTION:

Chinese Cambridge foreign language IGCSE is accepted by Universities and employers as proof of linguistic ability and understanding. The course encourages learners to develop lifelong skills, including:

- The ability to use a foreign language as a means of practical communication
- Insight into the culture and civilization of countries where the language is spoken
- A positive attitude towards language learning, towards the speakers of other languages, and towards other cultures and civilizations
- Techniques which can be applied to other areas of learning, such as analysis and memory skills
- A sound foundation for progression to employment or further study

TOPIC AREAS:

The syllabus content is organized around five broad Topic areas, which provide contexts for the acquisition of vocabulary and the study of grammar and structures. Through the study of these Topic areas, candidates gain insight into target language countries and communities.

The Topic areas are:

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

FINAL ASSESSMENT:

All candidates take the following four components:

Paper 1 - Listening – 30 marks (25%)

Paper 2 - Reading – 40 marks (25%)

Paper 3 - Speaking – 40 marks (25%) – Internally assessed, externally moderated.

Paper 4 - Writing – 45 marks (25%)

NOTES: If you have any questions regarding the subject, please contact **Ms Ria Chang (rchang@cisb.org.in)**

NAME OF THE COURSE:

Cambridge International Mathematics (0607)

COURSE DESCRIPTION:

This is a 2 year course. Students will attend the IGCSE Board examination at the end of Grade 10. This course has 3 papers. Only a graphic display calculator is allowed for this course.

SYLLABUS AIMS

Cambridge International Mathematics (IGCSE) syllabus is designed as a two-year course for examination at age 16-plus. The aims of this syllabus should enable students to:

- Acquire a foundation of mathematical skills appropriate to further study and continued learning in mathematics;
- Develop a foundation of mathematical skills and apply them to other subjects and to the real world;
- Develop methods of problem solving;
- Interpret mathematical results and understand their significance;
- Develop patience and persistence in solving problems;
- Develop a positive attitude towards mathematics which encourages enjoyment, fosters confidence.

TOPIC AREAS:

- Number
- Algebra
- Functions
- Coordinate Geometry
- Geometry
- Vectors and Transformations
- Mensuration
- Trigonometry
- Sets
- Probability
- Statistics

FINAL ASSESSMENT: FOR INTERNATIONAL MATHEMATICS**Extended:**

- Paper 2 – No calculators, short response questions
- 40 marks (20%)
- Paper 4 – A Graphics calculator is required – extended response questions. 120 marks (60%)
- Paper 6 – A Graphics calculator is required – Investigation / modelling – 60 marks (20%)

Note: For International Math only Graphic display calculator is allowed

Core:

- Paper 1 – No calculators, short response questions 40 marks (25%)
- Paper 3 – A Graphics calculator is required – extended response questions. 96 marks (60%)
- Paper 5 – A Graphics calculator is required - Investigation – 36 marks (15%)

Notes: If you have any questions regarding the subject, please contact- **Ms Piyusha <ppiyusha@cisb.org.in>**, **Mr Anil <anilkumar@cisb.org.in>**, **Mr. Jayseelan <jdurairaj@cisb.org.in>**, **Mr Pinaki <pgosh@cisb.org.in>**

NAME OF THE COURSE:

Additional Math 0606

(Two year course Grade 9 and 10)

COURSE DESCRIPTION:

Cambridge Additional Mathematics (IGCSE) syllabus is designed for the students who enjoy higher level Math and can work at fast pace. Only high achieving students from grade 8 and those showing a good achievement in previous schools will be offered this course. This course is suitable for the students who are interested in pursuing higher level Math courses in future.

TOPIC AREAS (GRADE 9 AND 10 ADDITIONAL MATH):

The following topics are covered in one year...

- Functions Quadratic functions
- Equations, inequalities and graphs
- Indices and Surds
- Factors of polynomials
- Simultaneous equations
- Logarithmic and exponential functions
- Straight line graphs
- Circular measure
- Trigonometry
- Permutations and Combinations
- Series
- Vectors in two dimensions
- Differentiation/ Integration

FINAL ASSESSMENT (FOR GRADE10- ADDITIONAL MATH):

Paper 1 – 2 hours – 80 marks (50%)

Paper 2 – 2 hours – 80 marks (50%)

Note: For Additional Math a Graphic display calculator is not allowed. If the students are looking for Higher level Math in IB this course is recommended. If you have any question regarding the subject, please contact

Mr. Anilkumar <anilkumar@cisb.org.in> and Mr Pinaki Ghosh <pghosh@cisb.org.in>

NAME OF THE COURSE:

Coordinated Science 0654

COURSE DESCRIPTION:

Cambridge IGCSE Coordinated Sciences gives learners the opportunity to study biology, chemistry and physics within a scientifically coherent syllabus and is accepted by universities and employers as proof of essential knowledge and ability. As well as a subject focus, the Cambridge IGCSE Co-ordinated Sciences syllabus encourages learners to develop: The aims are to enable candidates to acquire:

- A better understanding of the technological world, with an informed interest in scientific matters
- A recognition of the usefulness (and limitations) of scientific method, and how to apply this to other disciplines and in everyday life
- Relevant attitudes, such as a concern for accuracy and precision, objectivity, integrity, enquiry, initiative and inventiveness
- An interest in, and care for, the environment
- A better understanding of the influence and limitations placed on scientific study by society, economy, technology, ethics, the community and the environment
- An understanding of the scientific skills essential for both further study and everyday life.

TOPIC AREAS:

BIOLOGY

- B1 Characteristics of living organisms
- B2 Cells
- B3 Biological molecules
- B4 Enzymes
- B5 Plant nutrition
- B6 Animal nutrition
- B7 Transport
- B8 Gas exchange and respiration
- B9 Coordination and response
- B10 Reproduction
- B11 Inheritance
- B12 Organisms and their environment
- B13 Human influences on ecosystems

CHEMISTRY

- C1 The particulate nature of matter
- C2 Experimental techniques
- C3 Atoms, elements and compounds
- C4 Stoichiometry

- C5 Electricity and chemistry
- C6 Energy changes in chemical reactions
- C7 Chemical reactions
- C8 Acids, bases and salts
- C9 The Periodic Table
- C10 Metals
- C11 Air and water
- C12 Sulfur
- C13 Carbonates
- C14 Organic chemistry

PHYSICS

- P1 Motion
- P2 Work, energy and power
- P3 Thermal physics
- P4 Properties of waves, including light and sound
- P5 Electricity and magnetism
- P6 Electric circuits
- P7 Electromagnetic effects
- P8 Atomic physics

FINAL ASSESSMENT:

All candidates must enter for three papers.

Paper 2 -45 minutes

A multiple-choice paper consisting of 40 items of the four-choice type.

40 marks This paper will be weighted at 30% of the final total mark.

Paper 4 -2 hours

A written paper consisting of short-answer and structured questions.

120 marks This paper will be weighted at 50% of the final total mark.

Paper 6 -1 hour 30 minutes

Alternative to Practical

This paper will test assessment objective 60 marks This paper will be weighted at 20% of the final total mark.

Notes: If you have any question regarding the subject,

please contact **Mr Jose Syriac (jsyriac@cisb.org.in)** **Ms Preethi Nair (pnair@cisb.org.in)**

Lindsey Gisg (lgish@cisb.org.in)

NAME OF THE COURSE:

Option 1 - PE (General)

Option 2- PE (IGCSE PE, 0413)

OPTION 1 (GENERAL PE)

Students will have the opportunity to learn 4 sports in a year. Final assessment for Grading rubrics for grading will be shared during PE lessons.

OPTION 2 - IGCSE PHYSICAL EDUCATION (0413)**COURSE DESCRIPTION:**

Universities and employers accept Cambridge IGCSE Physical Education as proof that candidates have knowledge, skills and an understanding of a range of relevant physical activities. Candidates' knowledge, skills and understanding come from studying both practical and theoretical aspects of Physical Education. Successful Cambridge IGCSE Physical Education students gain lifelong skills, including:

- An ability to plan, perform, analyse and improve, and evaluate physical activities
- Knowledge, skills and understanding of a range of relevant physical activities
- An understanding of effective and safe performance
- An understanding of the role of sport and physical activity in society and in the wider world
- An excellent foundation for advanced study
- An enjoyment of physical activity

FINAL ASSESSMENT:**Paper 1 Written Paper - 50%**

Paper 1 examines Factors affecting performance; Health, safety and training; Reasons and opportunities for participating in physical activity

Coursework – Physical Performance 50%

For the coursework students may choose **4 activities from the below mentioned categories.**

Category 1 - Games: (Choose a max of three sport)

- Basketball
- Softball
- Association Football
- Table tennis

Category 2 Athletics: Weight Training**Category 3 -Swimming: Competitive Swimming**

Notes: If you have any questions regarding the subject, please contact,

Mr. Bipin KK (bipin@cisb.org.in), Mr.Devaiiah(devaiiah@cisb.org.in), Mr.Satheesh Chandran(schandran@cisb.org.in), Mr Joel Deepak Raj (jdeepak@cisb.org.in)

NAME OF THE COURSE:

Art & Design (0400)

COURSE DESCRIPTION:

The areas of study listed below provide a framework of art and design practice and indicate an approach that encourages exploration. Learners may use either traditional media or new media or a combination of both,

providing all assessment objectives are met. Candidates are encouraged to produce a variety of creative responses through exploration with a range of materials, processes and techniques.

Candidates are not expected to produce work from all the areas of study. They are, however, expected to:

- Identify and research a particular aspect of art and design
- Carry out relevant exploration of media, materials, techniques and appropriate processes
- Document and evaluate ideas and concepts against intentions as the work progresses
- Develop these into a cohesive final outcome.

Cambridge IGCSE Art and Design is accepted by universities, art colleges and employers as evidence of experience and skills in developing and producing a range of artifacts and designs showing visual knowledge and understanding along with critical and cultural awareness.

The Cambridge IGCSE Art and Design syllabus encourages a range of skills, stimulates aesthetic awareness, knowledge and critical understanding of art, and provides opportunities for learners to develop a range of skills. Crucially, a personal and independent perspective is encouraged at all times.

Successful candidates who have taken Cambridge IGCSE Art and Design gain lifelong skills, including:

- Confidence and enthusiasm as they develop technical skills in two- and three-dimensional form and composition
- The ability to identify and solve problems in visual and tactile forms
- The ability to develop ideas from initial attempts to outcomes.

Prior learning : Learners beginning this course are not expected to have studied art and design previously.

Progression : Cambridge IGCSEs are general qualifications that enable learners to progress directly to employment, or to proceed to further study. Candidates who are awarded grades A* to C in Cambridge IGCSE Art and Design are well prepared to follow courses leading to Cambridge International AS and A Level Art and Design, or IB Visual Art.

TOPIC AREAS:

The broad areas of study are:

- Painting and related media with a focus on observational drawing
- Printmaking
- Graphic design and fashion design

FINAL ASSESSMENT:

All candidates take two components: Component 1 and Component 2.

COMPONENT 1

Broad-based assignment, 100 marks

- Coursework
- 50%
- 100 marks
- Candidates research, develop and realise a project from one area of study in the subject content from a theme set by the teacher.

There are two parts to the coursework:

- A portfolio consisting the preparatory works and a final outcome.
- This component is Externally assessed

COMPONENT 2

Coursework assignment, 100 marks

- 8 hours Externally Set Assignment
- 50% Weightage
- 100 marks
- Candidates respond to one starting point set by Cambridge International.
- Candidates may produce work from the same area of study as Component 1.

There are two parts to the assignment:

- Supporting studies and a final outcome, produced during a supervised test of 8 hours' total duration.
- This component is Externally assessed

Requirement

- Supporting portfolio – Candidates produce a portfolio of up to two sheets (four sides) of A2.
- Final outcome - Candidates produce a final outcome in a chosen medium.

Notes: If you have any questions regarding the subject, please contact **Ms. Devaki Rao - rdevaki@cisb.org.in**

NAME OF THE COURSE:

IGCSE Drama (0411)

COURSE DESCRIPTION:

Cambridge IGCSE Drama is accepted by universities and employers as proof of knowledge and understanding of both the theory and practical application of drama. Through practical and theoretical study, the Cambridge IGCSE Drama syllabus encourages students to understand and enjoy drama by: developing their performance skills, both individually and in groups; understanding the role of actor, director and designer in creating a piece of theatre; considering ways in which ideas and feelings can be communicated to an audience; discovering the performance possibilities of plays and other dramatic stimuli; devising dramatic material of their own.

Component 1 Written examination - 2 hours 30 minutes - 40% of total grade

The questions on this paper relate to pre-release material which is sent to our Centre in advance of the examination. This material consists of three stimuli, and an extended extract from a play (or an abridged version of an entire play). Candidates devise a piece of drama based on one of the three stimuli and study the extract from the play for the exam. The questions on the paper will require candidates to have engaged with the pre-release material from the perspective of actor, director and designer.

Component 2 Coursework - 60% of total grade Candidates submit three pieces of practical work. One individual piece (3–5 minutes):

- One performance of an extract from a play.
- Two group pieces (maximum 15 minutes each)
- One performance of an extract from a play and one original devised piece.

Notes: If you have any questions regarding the subject, please contact,

Mr Michael Merrick (mmerrick@cisb.org.in)

Ms J'nelle Bob Semple (jnelle@cisb.org.in)

NAME OF THE COURSE:

IGCSE Music (0410)

COURSE DESCRIPTION:

Cambridge IGCSE Music is accepted by universities and employers as proof of musical skills, knowledge and understanding. This syllabus offers students the opportunity to develop their own practical musical skills through performing and composing. They also develop their listening skills by studying music from the main historical periods and styles of Western music as well as from selected non-Western traditions. The emphasis within the syllabus is as much on developing lifelong musical skills as on acquiring knowledge.

TOPIC AREAS:

Listening

Aural awareness, perception and discriminating in relation to Western music.

Identifying and commenting on a range of music from cultures in different countries

Knowledge and understanding of one World focus from non-Western culture and one Western set work

Performing

Technical competence on one or more instruments interpretive understanding of the music performed

Composing

Discrimination and imagination in free composition Notation using staff notation, if appropriate, other suitable notation.

FINAL ASSESSMENT:

- Listening – 70 marks - 40% (externally assessed)
- Performing – 50 marks - 30% (Internally marked and externally moderated)
- Composing – 100 marks - 30% (Internally marked and externally moderated)

Notes: If you have any questions regarding the subject,

please contact, **Ms Barbara Thomas (bthomas@cisb.org.in)**, **Ms Rachel Dudley (rdudley@cisb.org.in)**

NAME OF THE COURSE:

Information & Communication Technology (0417)

COURSE DESCRIPTION:

The Cambridge IGCSE Information and Communication Technology syllabus encourages students to develop lifelong skills including:

- Understanding and using applications
- Using information and communication technology (ict) to solve problems
- Analysing, designing, implementing, testing and evaluating ict systems, ensuring that they are fit for purpose
- Understanding the implications of technology in society, including social, economic and ethical uses
- Awareness of the ways ict can help in home, learning and work environments.

Our programmes balance a thorough knowledge and understanding of a subject and help to develop the skills learners need for their next steps in education or employment.

Information and Communication Technology (0417) falls into Group V, Creative, Technical and Vocational.

TOPIC AREAS:

- Types and components of computer systems
- Input and output devices
- Storage devices and media
- Networks and the effects of using them
- The effects of using IT
- ICT applications
- The systems life cycle
- Safety and security
- Audience
- Communication
- File management
- Images
- Layout
- Styles

- Proofing
- Graphs and charts
- Document production
- Data manipulation
- Presentations
- Data analysis
- Website authoring

FINAL ASSESSMENT:**Paper 1**

2 hours Theory 40%

100 marks

Questions will be based on sections 1–21 of the subject content. All questions are compulsory and externally assessed.

Paper 2

2 hours 30 minutes Document Production,

Data Manipulation and Presentations. 30% 80 marks

This test assesses the practical skills needed to use the applications covered in sections 17, 18 and 19 of the subject content.

Candidates use knowledge-based practical skills from sections 1–16

All tasks are compulsory and externally assessed.

Paper 3

2 hours 30 minutes

Data Analysis and Website Authoring 30% 80 marks

This test assesses the practical skills needed to use the applications covered in sections 20 and 21 of the subject content

Candidates use knowledge-based practical skills from sections 1–16

All tasks are compulsory and externally assessed.

Notes: If you have any questions regarding the subject, please contact **Mrs. Vincy Jose** <vjose@cisb.org.in>

NAME OF THE COURSE:

Design Technology (0445)

COURSE DESCRIPTION:

The Cambridge IGCSE Design and Technology syllabus enables learners to identify, consider and solve problems through creative thinking, planning and design, and by working with different media, materials and tools. As a result, learners gain greater technical and design awareness, while developing skills such as initiative, resourcefulness, enquiry and ingenuity. They also develop the communication skills central to design making and evaluation.

Cambridge IGCSE Design and Technology provides an ideal basis for further study, and prepares learners for their future within a rapidly changing technological society.

The aims are to enable students to:

- Develop creative thinking in areas relevant to design and technology
- Apply problem-solving skills to practical and technological problems
- Develop the communication skills central to design, realisation and evaluation
- Gain knowledge and understanding of design and technology
- Develop skills in research and investigation
- Design and make products, taking into consideration sustainability and the wider impact on society
- Develop the ability to make aesthetic, economic, ethical and technical value judgements.

TOPIC AREAS:

Common content – study all topics							
Observe need/requirement	Design brief/specification	Identification/research	Generation of possible ideas	Selection/organisation	Evaluation	Implementation and realisation	
Health and safety	Initiation and development of ideas, and recording data	Communication of design ideas	Use of technology in design and making	Design & technology in society	Practical design application	Environment and sustainability	Control
Specialist option content – study topics from one specialist option							
Resistant Materials OR	Types of material	Preparation of materials	Setting, measuring, marking out, testing	Shaping	Joining and assembly	Finishing	
Systems & Control OR	Systems & Control Key content	Structures	Mechanisms	Electronics			
Graphic Products	Formal drawing techniques	Projections, views and developments	Presenting and communicating information	Materials and modelling	Use of instruments and/or ICT	Manufacture of graphic products	

FINAL ASSESSMENT:

All candidates take three papers.

(25%) Paper 1 and

(50%) Project Component 2 plus

(25%) one from Paper 3 OR Paper 4 OR Paper 5

Notes : If you have any questions regarding the subject, please contact

Mr Mark Jalland (mjalland@cisb.org.in)

NAME OF THE COURSE:

Computer Science (0478)

COURSE DESCRIPTION:

Cambridge IGCSE Computer Science syllabus aims are to develop:

- Computational thinking that is thinking about what can be computed and how, and includes consideration of the data required
- Understanding of the main principles of solving problems by using computers
- Understanding that every computer system is made up of sub-systems, which in turn consist of further sub-systems
- Understanding of the component parts of computer systems and how they interrelate, including software, data, hardware, communications and people
- Skills necessary to apply understanding to solve computer-based problems using a high-level programming language.

TOPIC AREAS:

- Theory of computer science
 - a. Data representation
 - b. Communication and internet technologies
 - c. Hardware software
 - d. Security
 - e. Ethics
- Problem solving and programming
 - a. Algorithm design and problem-solving
 - b. Programming
 - c. Database

FINAL ASSESSMENT:

Paper 1 – Theory 1 hour 45 minutes 60%

This written paper contains short-answer and structured questions. All questions are compulsory. No calculators are permitted in this paper.

75 marks Externally assessed.

Paper 2 – Problem solving and programming 1

hour 45 minutes 40%

This written paper contains short-answer and structured questions. All questions are compulsory. 20 of the marks for this paper are from questions set on the pre-release material. No calculators are permitted in this paper.

50 marks Externally assessed.

Notes : If you have any questions regarding the subject, please contact

Mrs. Poornima Gurudutt <pgurudutt@cisb.org.in>

NAME OF THE COURSE:

Economics (0455)

COURSE DESCRIPTION:

Cambridge IGCSE Economics is a two year course which is accepted by universities and employers as proof of essential knowledge and ability. As well as a subject focus, the Business syllabus enables learners to:

- Cambridge IGCSE Economics is accepted by universities and employers as proof of knowledge and understanding of economics.

Successful Cambridge IGCSE Economics candidates gain lifelong skills, including:

- An understanding of economic theory, terminologies and principles
- The ability to apply the tools of economic analysis
- The ability to distinguish between facts and value-judgments in economic issues
- An understanding of, and an ability to use, basic economic numeracy and literacy
- The ability to take a greater part in decision-making processes in everyday life
- An understanding of the economies of developed and developing nations
- An excellent foundation for advanced study in economics.

TOPIC AREAS:

- Basic economic problem: choice and the allocation of resources
- The allocation of resources: how the market works; market failure
- The individual as producer, consumer and borrower
- The private firm as producer and employer
- Role of government in economy
- Economic indicators
- Developed and developing economies: trends in production, population and living standards
- International aspects

FINAL ASSESSMENT:**Paper 1**

Multiple choice 45 minutes.

Candidates answer 30 multiple choice questions.

Weighted at 30% of total available marks.

Paper 2

Structured questions 2 hours 15 minutes

Candidates answer one compulsory question, which requires them to interpret and analyse previously unseen data relevant to a real economic situation, and three optional questions from a choice of six. Weighted at 70% of total available marks.

Note: If you have any questions regarding the subject, please contact

Ms Suruchi Bhatia (sbhatia@cisb.org.in)

NAME OF THE COURSE:

Business Studies (0450)

COURSE DESCRIPTION:

Cambridge IGCSE Business is a 2 year course which is accepted by universities and employers as proof of essential knowledge and ability. As well as a subject focus, the Business syllabus enables learners to:

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

Successful Cambridge IGCSE Business Studies learners will be able to:

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

They will also gain lifelong skills, including:

- The ability to calculate and interpret business data
- Communication skills needed to support arguments with reasons
- The ability to analyze business situations and reach decisions or judgments.

TOPIC AREAS:

- Understanding Business Environment
- Marketing
- Human Resource Management
- Operations Management
- Finance in Business
- External Influences on Business Activity

FINAL ASSESSMENT:

Paper I

1 hr 30 minutes

Written examination consisting of four questions requiring a mixture of short answers and structured data responses. Candidates answer all questions. 80 marks.

Externally Assessed

Paper II

1 hr 30 minutes

Written examination consisting of four questions based on a case study, provided as an Insert with the paper.

Candidates answer all questions. 80 marks. Externally assessed.

Note: If you have any questions regarding the subject, please contact

Mr Srinivasa Reddy (sreddy@cisb.org.in)

Mr S Ramesh (ramesh@cisb.org.in)

NAME OF THE COURSE:

Global Perspectives (0457)

COURSE DESCRIPTION:

Cambridge IGCSE Global Perspectives is a two-year course which is accepted by universities and employers as proof of essential knowledge of current affairs and ability in critical thinking. As well as focusing on a breadth of topics, the Global Perspectives syllabus enables learners to:

- Gather, synthesize and communicate information collaborate with others to achieve a common outcome
- Analyze and evaluate planning, processes and outcomes
- Develop and justify a line of reasoning.

TOPIC AREAS:

Team Project

- Conflict and peace
- Disease and health
- Human rights
- Poverty and inequality
- Tradition, culture, and identity

Individual Report

- Belief systems
- Biodiversity and ecosystem loss
- Changing communities
- Humans and other species
- Sustainable living

Individual Report

- Demographic change
- Education
- Employment
- Fuel and energy
- Globalization
- Law and criminality
- Migration
- Transport systems

FINAL ASSESSMENT:

Externally Assessed

Component 1

Written Examination 70 marks (35%)

This component is Internally set and Externally Marked

Component 2

Individual Report 60 marks (30%)

Component 3

Team Project

Team Element 10 marks

Personal Element 60 marks (35%)

Total = 100%

Notes: If you have any questions regarding the subject, please contact **Mr S Ramesh (ramesh@cisb.org.in)**

NAME OF THE COURSE:

Cambridge IGCSE Environmental Management 0680

COURSE DESCRIPTION:

The aims below describe the educational purposes of a course in Environmental Management for the Cambridge IGCSE examination. They are not listed in order of priority.

The aims are to enable candidates to acquire:

- Knowledge of natural systems which make life possible on earth
- An understanding that humans are part of these systems and depend on them
- An appreciation of the diverse influences of human activity on natural systems
- An awareness of the need to manage natural systems
- An understanding of sustainable development to meet the needs of the present, without compromising the ability of future generations to meet their own needs
- A sense of responsibility and concern for the welfare of the environment and all organisms
- An awareness of their own values concerning

environmental issues

- A willingness to review their own attitudes in the light of new knowledge and experiences
- A sound basis for further study, personal development and participation in local and global environmental concerns.

TOPIC AREAS:

The syllabus is divided into nine topics, which have been designed to develop an understanding of both the natural and the human environment -

- Rocks and minerals and their exploitation
- Energy and the environment
- Agriculture and the environment
- Water and its management
- Oceans and fisheries
- Managing natural hazards
- The atmosphere and human activities
- Human population
- Natural ecosystems and human activities

FINAL ASSESSMENT:

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

Paper 1 Theory 1 hour 45 minutes (50%)

The paper will consist of two sections -

Section A - Short and structured questions. (20 marks)

Section B - Short-answer and extended response questions based on source material. (60 marks)

Paper 2 Management in context 1 hour 45 minutes (50%)

Short, and extended response questions based on source material. (80 Marks)

Notes: If you have any questions regarding the subject, please contact

Mr Paul Crowe (pcrowe@cisb.org.in)

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CIS is a culturally-rich mosaic serving each student by providing a world-class international education, nurturing potential, developing life-long skills, and preparing students for an ever-changing global community.

CONTACT DETAILS:

Survey No 4 and 20, Manchenahalli,
Yelahanka, Bangalore 560 064, INDIA.
Tel: +91 80 6759 4444 | Email: info@cisb.org.in

WWW.CANADIANINTERNATIONALSCHOOL.COM