



CANADIAN
INTERNATIONAL
SCHOOL



The IGCSE Programme

COURSE DESCRIPTION BOOKLET

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COURSE DESCRIPTION BOOKLET

The IGCSE Programme.
International General Certificate of Secondary Education



CAMBRIDGE
International Examinations

Cambridge International School

For Grades 9 and 10
2016 - 2018

Cambridge
IGCSE

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Introduction: What is IGCSE?

Cambridge IGCSE is the world's most popular international curriculum for 14-16 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 enquiry-based approaches to learning. It develops learners' skills in creative thinking, enquiry 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 CIE (Cambridge 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 Evening and 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 do not hesitate to contact subject teachers for subject-specific enquiries or Mrs. Bhattacharya about exam-related questions.

Some of the subjects offered at CIS can be taken either at Core or Extended level. For the Core level, the best 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 Year Grade10.

This will be based on their achievement on the course so far and it will have to bear in mind the longer 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 changed.

IGCSE OPTION BLOCK FOR STUDENT ENTERING GRADE 9

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5
English Lang & Lit OR English – Second Language	Economics OR Global Perspectives OR Business Studies	Physics AND/OR Chemistry AND/OR Biology (Any 2)	International Math (1 year) OR International Math (2 years)	Section A ICT OR 3rd Science OR Computer Science

GROUP 1	GROUP 5
<p>Section B</p> <p>EAL(non IGCSE)</p> <p>OR French - Foreign Language (Higher)</p> <p>OR French - Foreign Language (Lower)</p> <p>OR Spanish - Foreign Language</p> <p>OR Hindi Second Language</p> <p>(Any 1)</p>	<p>Section B</p> <p>Art & Design(IGCSE)</p> <p>OR Art(CIS)</p> <p>OR Drama</p> <p>OR Music</p> <p>OR Physical Education</p> <p>OR Music & Band / Band(non IGCSE)</p> <p>(Any 1)</p>

*A student can select any 2 Sciences from group 3. If the student wishes to take a third Science, then it has to be from Group 5 (section A).

** In Group 4, we have 2 sub groups. Group 1 does "International Math" in one year. At the end of grade 9, this group can take the IGCSE exam. This class is called the "Accelerated Math". In Grade 10, this group will continue with Additional Math (by the end of two years, the group gets 2 credits). Group 2 does "International Math" for 2 years, and then takes the IGCSE exam, at the end of Grade 10.

Cambridge
IGCSE

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:

1. Analysis
2. Communication Skills
3. Summary
4. Language Development

Final Assessment:

Core:

Paper 1 – Reading Comprehension, Extended response, Summary Paper 3- Directed Writing and Composition

Extended:

Paper 2- Directed Writing, Effects of language and Summary Paper 3- Directed Writing and Composition

Notes: If you have any question regarding the subject ,

please contact **Ms. Sonia Rai (srai@cisb.org.in)** or **Ms. Adina Cuxton (acuxton@cisb.org.in)** or **Ms. Devika Varma (dvarma@cisb.org.in)**

Literature English (0486)

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 5, the following 15 poems:

- Fleur Adcock, 'For Heidi With Blue Hair'
- James K Baxter, 'Elegy For My Father's Father'
- Elizabeth Bishop, 'One Art'
- Boey Kim Cheng, 'Reservist'
- Emily Brontë, 'Cold In The Earth'
- Robert Browning, 'Meeting At Night'
- Emily Dickinson, 'Because I Could Not Stop For Death'
- Philip Larkin, 'The Trees'

- Charlotte Mew, 'The Trees Are Down'
- Grace Nichols, 'Praise Song For My Mother'
- Wilfred Owen, 'Anthem For Doomed Youth'
- Siegfried Sassoon, 'Attack' S
- Stephen Spender, 'My Parents'
- Alfred, Lord Tennyson, 'Song: Tears, Idle Tears'
- Hone Tuwhare, 'Friend'

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

Poems printed in the paper will be as printed in this text.

Prose: Short Stories

From Stories of Ourselves, the following 10 stories:

- no. 10 Saki (Hector Hugo Munro), 'Sredni Vashtar'
- no. 17 Sylvia Townsend Warner, 'The Phoenix'
- no. 19 Bernard Malamud, 'The Prison'
- no. 22 J G Ballard, 'Billenium'
- no. 24 Maurice Shadbolt, 'The People Before'
- no. 30 Patricia Highsmith, 'Ming's Biggest Prey'
- no. 34 Anita Desai, 'Games at Twilight'
- no. 39 Paule Marshall, 'To Da-duh, in Memoriam'
- no. 40 Rohinton Mistry, 'Of White Hairs and Cricket'
- no. 45 Adam Thorpe, 'Tyres'

Component 2 - Drama

- J.B. Priestley An Inspector Calls
- J Lawrence / R Lee Inherit the Wind

Final Assessment:

Component 1

Poetry and Prose 1 hour 30 minutes

Candidates answer two questions on two texts: one poetry and one prose.

There is a choice of two questions (one passage-based and one essay) on each text.

50 marks

Externally marked 50%

Component 2

Drama 1 hour 30 minutes

Candidates answer two questions on two texts.

There is a choice of two questions on each text: (one passage-based and one essay) on each text. **Candidates must answer one passage-based question and one essay question.**

50 marks

Externally marked 50%

Notes: If you have any questions regarding the subject, please contact **Ms. Sonia Rai (srai@cisb.org.in)** or **Ms. Adina Cuxton (acuxton@cisb.org.in)** or **Ms. Devika Varma (dvarma@cisb.org.in)**

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)

Final Assessment:

Core:

Paper 1 (Reading and writing)

1 hour 30 minutes Eligible for grades C–G 70% of total marks Paper 3 (Listening) Approx.

30–40 minutes Eligible for grades C–G 30% of total mark

Extended:

Paper 2 (Reading and writing)

2 hours

Eligible for grades A*–E 70% of total marks

Paper 4 Listening (Extended)

Approx. 45 minutes Eligible for grades A*–E 30% of total marks

Component 5 (Oral) – same for Core and Extended

Approx. 10–12 minutes

Please 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 15% of the overall grade and the listening is 15%.

Notes: If you have any question regarding the subject, please contact **Ms. Asha Samuel (asamuel@cisb.org.in)**

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:

1. Analysis
2. Communication Skills
3. 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 question regarding the subject, please contact, **Ms. Navnita Karmakar nkarmakar@cisb.org.in, Mr.Terry Lindeman tlindeman@cisb.org.in**

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:

- 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.

French at CIS is taught at two levels – lower level for beginners (under 2 years learning French) and higher level for students who have learnt the language for more than 2 years.

Topic Areas: There are five broad topics which need to be covered:

- 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

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%)
 Paper 4 – Writing – 50 marks (25%)

Notes: If you have any questions regarding the subject, please contact
Elsa Amy (eamy@cisb.org.in), Nicolas Lapoujade (nlapoujade@cisb.org.in)

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.

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 question regarding the subject,
please contact Virginia Garres <varagues@cisb.org.in>

Course Description:

Syllabus aims and assessment objectives

The aims set out below describe the general educational purposes of a course in Hindi as a Second Language, and are the same for all candidates.

1. develop the ability to use Hindi effectively for the purpose of practical communication.
2. form a sound base for the skills required for further study or employment using Hindi as the medium.
3. develop an awareness of the nature of language and language-learning skills, along with skills of a more general application.

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: (Exam in March)

Scheme of assessment for all candidates take Papers 1 and 2 and are eligible for the award of grades A* to G. Assessment objectives and their weighting this syllabus assesses Reading, Writing and Listening skill

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 is 67%

Paper 2 Listening skill Four exercises – comprehension and true/false. Duration Approx. 35–45 minutes 33%

All questions and responses are in Hindi

Resources:

Resources prepared by the teacher on I Pad Apps, Google drive, iMovie CDROM/Cultural based inspiring Youtube, Blogs etc

Notes: If you have any question regarding the subject, please contact **Vishwas Kulkarni (vkulkarni@cisb.org.in)**

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, terminology 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:

1. Basic economic problem: choice and the allocation of resources
2. The allocation of resources: how the market works; market failure
3. The individual as producer, consumer and borrower
4. The private firm as producer and employer
5. Role of government in economy
6. Economic indicators
7. Developed and developing economies: trends in production, population and living standards
8. 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.

Notes: If you have any question regarding the subject , please contact **Mr. Robert Cowles <bcowles@cisb.org.in>**

Course Description: Cambridge IGCSE Business 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 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 organisations, 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:

1. Understanding Business Environment
2. Marketing
3. Finance in Business
4. Operations Management
5. Human Resource Management
6. External Influences on Business Activity

Final Assessment:

Paper I 1hr 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 1hr 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.

Notes: If you have any question regarding the subject, please contact **Mr. Srinivasa Reddy <sreddy@cisb.org.in>**

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:

1. Education for all
2. Poverty and inequality
3. Tradition, culture and identity
4. Belief systems
5. Biodiversity and ecosystem loss
6. Climate change
7. Water, food, and agriculture
8. Fuel and energy
9. Et cetera

Final Assessment:

Internally assessed coursework – 70%

1. Individual report #1: 20%
2. Group project: 30%
3. Individual report #2: 20%
4. Externally assessed written paper – 30% Total = 100%

Note: If you have any question regarding the subject, please contact **Ms. Jordan Kimberly** <kjordan@cisb.org.in>

Course Description: Cambridge IGCSE Physics 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 physics syllabus enables learners to:

- Better understand the technological world, with an informed interest in scientific matters.
- Recognize the usefulness (and limitations) of scientific method, and how to apply this to other disciplines and in everyday life.
- develop relevant attitudes, such as a concern for accuracy and precision, objectivity, integrity, enquiry, initiative and inventiveness.
- develop an interest in, and care for, the environment.
- develop an understanding of the scientific skills essential for both further study and everyday life.

Topic Areas:

1. General Physics
2. Thermal Physics
3. Properties of waves including light and sound
4. Electricity and magnetism
5. Atomic Physics

Final Assessment:

Core:

Paper1 – Multiple choice questions -45 min-30% of the final grade

Paper3 - A written paper consisting of short -answer and structured questions.
- 1hr15min-50% of the final grade.

Paper6 -Alternative to practical-1 hour-20% of the final grade.

Extended:

Paper2 – Multiple choice questions -45 min-30% of the final grade

Paper4- A written paper consisting of short -answer and structured questions.
- 1hr15min-50% of the final grade.

Paper6-Alternative to practical-1 hour
-20% of the final grade.

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

Ms. Aditi Bhattacharya (abhattacharya@cisb.org.in) or Ms.Muthulekshmi Rajendran <mrajendran@cisb.org.in> or Mr. Pinaki Ghosh (pghosh@cisb.org.in)

Course Description:

Cambridge IGCSE Chemistry 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 chemistry syllabus enables learners to:

- Better understand the technological world, with an informed interest in scientific matters.
- Recognize the usefulness (and limitations) of scientific method, and how to apply this to other disciplines and in everyday life.
- develop relevant attitudes, such as a concern for accuracy and precision, objectivity, integrity, enquiry, initiative and inventiveness.
- develop an interest in, and care for, the environment.
- develop an understanding of the scientific skills essential for both further study and everyday life.

Topic Areas:

1. The particulate nature of matter
2. Experimental techniques
3. The Periodic Table, Atoms, elements and compounds (metals, sulfur, Carbonates)
4. Electricity and chemistry
5. Chemical reactions (stoichiometry, energetic, acids bases and salts)
6. Air and water
7. Organic chemistry

Final Assessment:

Core:

Paper1 – Multiple choice questions -45 min -30% of the final grade

Paper3- A written paper consisting of short -answer and structured questions.

- 1hr15min-50% of the final grade.

Paper6-Alternative to practical

-1 hour-20% of the final grade.

Extended:

Paper2 – Multiple choice questions -45 min-30% of the final grade

Paper4- A written paper consisting of short -answer and structured questions.

- 1hr15min-50% of the final grade.

Paper6-Alternative to practical-1 hour-20% of the final grade.

Notes: If you have any question regarding the subject,
please contact contact **Ms. Sita Venkataraman** <svenkataraman@cisb.org.in>

Course Description:

Cambridge IGCSE Biology 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 biology syllabus enables learners to:

- Better understand the technological world, with an informed interest in scientific matters.
- Recognize the usefulness (and limitations) of scientific method, and how to apply this to other disciplines and in everyday life.
- develop relevant attitudes, such as a concern for accuracy and precision, objectivity, integrity, enquiry, initiative and inventiveness.
- develop an interest in, and care for, the environment.
- develop an understanding of the scientific skills essential for both further study and everyday life.

Topic Areas:

1. Classification of living organisms
2. Cell structure and function
3. Human and Plant Nutrition
4. Plant structure, function, transport and reproduction
5. Human Anatomy and function
6. Genetics and Evolution
7. Ecosystems and human impact on them

Final Assessment:

Core:

Paper1 – Multiple choice questions -45 min-30% of the final grade

Paper3- A written paper consisting of short -answer and structured questions.

- 1hr15min-50% of the final grade.

Paper6-Alternative to practical-1 hour-20% of the final grade.

Extended:

Paper2 – Multiple choice questions -45 min-30% of the final grade

Paper4- A written paper consisting of short -answer and structured questions.

- 1hr15min-50% of the final grade.

Paper6-Alternative to practical-1 hour-20% of the final grade.

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

Ms. Tracey Bowen (tbowen@cisb.org.in) and Mr. Craig Morton (cmorton@cisb.org.in)

Course Description:

This course can be done in one year (Accelerated Maths) or two year. Students doing the accelerated course attend the IGCSE Board examination in grade-9, all others will do so in Grade 10. This course has 3 papers. Only graphic display calculator is allowed for this course. If students complete Accelerated Math in grade-9 then they are eligible to take Additional Math in Grade-10.

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:

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

The following topics are covered

1. Algebra (Expansion and Factorisation, Equations and Inequalities, Formulae and Simultaneous equations, Algebraic fractions).
2. Sets
3. Lines, Angles and Polygons
4. Graphs charts and tables
5. Exponents and Surds 6.Pythagoras theorem 7.Mesnsuration
8. Statistics (analysis of discrete data, continuous data, two variable analysis)
9. Coordinate geometry
10. Straight lines
11. Similarity
12. Trigonometry and further Trigonometry
13. Functions and further functions
14. Transformation Geometry
15. Vectors
16. Probability
17. Sequences
18. Circle geometry/theorems
19. Variations and power modeling
20. Logarithms
21. Inequalities/ graphs

Final Assessment: For International Math

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 / modeling – 40 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 – 24 marks (15%)

Note: For Additional Math Graphic display calculator is not allowed.

Notes: If you have any question regarding the subject,
please contact **Ms Vrinda (rvrinda@cisb.org.in)** , **Ms Piyusha (ppiyusha@cisb.org.in)**,
Mr Anil (anilkumar@cisb.org.in) , **Ms Veena (veena@cisb.org.in)**

Additional Math (0606)

(One year course – Grade 10 only, following Accelerated maths in Grade 9)

Course Description: Cambridge Additional Mathematics (IGCSE) syllabus is designed for those students who have already completed they IGCSE International Mathematics. It enables the student to:

Grade-10 Additional Math

The following topics are covered in one year.

1. Sets
2. Functions
3. Quadratic functions
4. Indices and Surds
5. Simultaneous equations
6. Factors of polynomials
7. Logarithmic and exponential functions
8. Straight line graphs
9. Circular measure
(sectors in details with trigonometric concepts)
10. Trigonometry (identities and graphs)
11. Permutations and Combinations
12. Binomial expansions
13. Vectors
14. Matrices
15. Calculus (Differentiation/ Integration/Application / Kinematics)

Assessment:

Final Assessment: For Grade-10 - Additional Math(1 year course)

Paper 1 – 2 hours – 80 marks (50%)

Paper 2 – 2 hours – 80 marks (50%)

Note: For Additional Math Graphic display calculator is not allowed.

If the students are looking for Higher level Math in IB this course is recommended

Notes: If you have any question regarding the subject ,
please contact Mr. Anil Kumar (anilkumar@cisb.org.in)

Course Description: Cambridge IGCSE is internationally recognized by schools, universities and employers as equivalent to UK GCSE. The Cambridge IGCSE Information and Communication Technology syllabus encourages students to develop lifelong skills including:

- the ability to understand and implement new and emerging technologies within a business environment
- how to analyse, design, implement, test and evaluate Information and Communication Technology (ICT) systems
- considering the impact which new technologies will have on ways of working and the social, economic and ethical issues associated with them
- Awareness of the ways ICT can help in practical and work-related scenarios.

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

Topic areas for knowledge & understanding :

The curriculum content is set out in eight interrelated sections. These sections should be read as an integrated whole and not as a progression.

The sections are:

1. Types and components of computer systems
2. Input and output devices
3. Storage devices and media
4. Computer networks
5. Data types
6. The effects of using ICT
7. The ways in which ICT is used
8. Systems analysis and design

Assessment criteria for practical tests are set out in eight sections:

1. Communication
2. Document production
3. Data manipulation
4. Integration
5. Output data
6. Data analysis
7. Website authoring
8. Presentation authoring

Final Assessment:

Paper 1 – Theory 100 marks weighted at 40% of total
Paper 2 – Practical's 80 marks weighted at 30% of total
Paper 3 – practical's 80 marks weighted at 30% of total

Notes: If you have any question regarding the subject, please contact
Mrs. Poornima Gurudutt (pgurudutt@cisb.org.in)

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:

1. Theory of computer science

- a. Data representation
- b. Communication and internet technologies
- c. Hardware software
- d. Security and ethics

2. Problem solving and programming

- a. Algorithms
- b. Programming
- c. Database

Final Assessment:

Paper 1 – theory

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

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 question regarding the subject,

please contact Mrs. Bina A <bina@cisb.org.in>

Course Description: 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 4.

COMPONENT 1

Broad-based assignment, 100 marks

Externally assessed

Weighting – 50%

Requirement

- Supporting studies – Two month preparatory period during which time candidates produce their supporting studies
- Controlled test - Candidates take an eight-hour practical test.

COMPONENT 4

Coursework assignment, 100 marks

Internally marked by teachers and externally moderated

Weighting - 50%

Requirement

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

Notes: If you have any question regarding the subject, please contact **Mrs. Maria Marincowitz (mmarincowitz@cisb.org.in)**

CIS Art & Design

Course Description: CIS Art and Design will provide students with 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 CIS 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 CIS 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

Candidates who are awarded grades A* to C in CIS 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
- 3-dimensional art forms

Final Assessment:

All candidates take two components: Component 1 and Component 4.

COMPONENT 1

Broad-based assignment, 100 marks

Internally assessed

Weighting – 50%

Requirement

- Supporting studies – Two month preparatory period during which time candidates produce their supporting studies
- Final outcome - Candidates starts a final artwork (based on preparatory work) during a supervised 8-hour practical examination, and completes it over a period of one week after the examination.

COMPONENT 4

Coursework assignment, 100 marks

Internally marked by teachers and externally moderated

Weighting - 50%

Requirement

- Supporting portfolio – Candidates produce a portfolio equivalent to four sheets (eight sides) of A2. However, the artworks can take on any format.
- Final outcome - Candidates produce a final outcome in a chosen medium.

Notes: If you have any question regarding the subject,
please contact **Mrs. Maria Marincowitz (mmarincowitz@cisb.org.in)**

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 Centres 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.

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 question regarding the subject,
please contact, **Mr. Aaron Hoose (achoose@cisb.org.in)**

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 Area

(I) 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

(II) Performing

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

(III) Composing

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

Final Assessment

Listening – 70 marks - 40%
Performing – 50 marks - 30%
Composing – 100 marks - 30%

Notes: If you have any question regarding the subject ,
please contact, **Mr. Scott Zeuch (szeuch@cisb.org.in)**

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 - 40%

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

Coursework – Physical Performance 50%

Performance Analysis 10%

For the coursework students may chose and 4 activities form the below mentioned categories. A maximum of 3 activities can be chosen from one category.

Games: Basketball, cricket, Softball, association football, Table Tennis

Athletics: track and field

Swimming: Competitive swimming

Notes: If you have any question regarding the subject, please contact, **Mr Bipin (bipin@cisb.org.in)**

Shaping The Future... Together! Today!



CANADIAN
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OUR MISSION

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.

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