



Garodia International Centre for Learning, Mumbai

IGCSE Curriculum Guide 2018-20

Welcome

The IGCSE programme begins the very important pathway that leads onto the International Baccalaureate, university acceptance and future career success.

We have chosen the IGCSE for a number of reasons:

- The Cambridge Assessment International Education courses/ subjects offer a curriculum and experience that is valued and recognised worldwide.
- The curriculum builds a foundation of skills and knowledge that are ideal preparation for the International Baccalaureate programme.
- The programme offers an international experience rooted in academic rigour.
- The Cambridge Attributes provide a student profile that reflects the values and mission of GICLM: Confident, Responsible, Engaged, Innovative and Reflective learners.

In a world today where young people will have a variety of careers during their lifetime, the IGCSE opportunities that we offer will give students a broad educational experience through:

- A compulsory 'core' pathway of key subjects
- Some 'optional' subjects to reflect personal strengths and interest

IGCSE is a two year programme with examinations taken at the end of the course. There are some opportunities for Coursework.

We look forward to welcoming you into our vibrant GICLM community. It promises to be a hugely enjoyable, enriching experience.

Ian Davies
Head of School

GICLM Subjects 2018-2020

Core Subjects (taken by all students)

English Language (1 st language)		English Literature (extra qualification for those students with outstanding skills)
Mathematics (Extended)		Additional Maths (extra qualification for those students with outstanding skills)
3 Sciences (After Grade 9 students will have the option of reducing their Sciences to two only on the advice of teachers)		
Biology	Chemistry	Physics
Foreign Languages (Students would usually follow ONE foreign language. There will be opportunities for good linguists to follow TWO languages) Students choose from the languages below		
German (Acquisition language)	French (Acquisition language)	Mandarin (Acquisition language)
		Hindi (Acquisition language)

Optional Subjects (Students choose one from each block)

Block A		
Business	History	Economics

Block B			
Art and Design	Drama	ICT	Business

GICLM Subject Outlines

English Language (1st language)

Overview

Cambridge IGCSE First Language English is designed for learners whose mother tongue is English.

The course allows learners to:

- Develop the ability to communicate clearly, accurately and effectively when speaking and writing
- Learn how to use a wide range of vocabulary, and the correct grammar, spelling and punctuation
- Develop a personal style and an awareness of the audience being addressed.

Learners are encouraged to read widely, both for their own enjoyment and to further their awareness of the ways in which English can be used. Cambridge IGCSE First Language English also develops more general analysis and communication skills such as synthesis, inference, and the ability to order facts and present opinions effectively.

Prior learning: We recommend that learners who are beginning this course should have a level in English equivalent to First Language competence.

Content

- Analysing texts of different types through reading and writing
- Comprehension, summary, paraphrase, linguistic skills
- Communication through writing and spoken language using appropriate vocabulary, contextual to audience, in accurate sentence structures.

Assessment Outline

External Assessment		Coursework	
Paper One Written	1 hr 45m 50%	Coursework Portfolio	50%
Reading and analysing 2 passages		3 written assignments	

English Literature

Overview

- To gain detailed knowledge of literature texts in e forms: drama, poetry and prose.
- Understand meanings in above and explore beyond surface meanings to show deeper awareness of ideas and attitudes.
- Appreciate how writers use language, structure and form to create shape, meanings and effects.

Content

- One poetry text chosen from set list
- Three literary texts chosen from set list (including one drama and novels)

Assessment Outline

External Assessment		Coursework	
Paper One Written Answers on poetry and prose	1 hr 30m 50%	Portfolio of 2 pieces on a different text	25%
Paper Two Written Answers on one Drama texts	2 hours 25%		

Foreign Languages (acquisition languages) French, German, Mandarin, Hindi

Overview

Cambridge foreign language IGCSE's are 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 civilisation of countries where the language is spoken
- a positive attitude towards language learning, towards the speakers of other languages, and towards other cultures and civilisations
- 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.

Content

- Everyday Activities
- Personal and Social Life
- The world around us
- The world of work
- The international world

Assessment Outline

External Assessment		Coursework	
Paper One Listening and comprehension	45 mins 25%	Paper Two Reading and comprehension	1 hour 25%
Paper Three Speaking 2 role plays and conversation	16 mins 25%	Paper Four Writing Answer 3 set tasks	1 hour 25%

Mathematics (Extended)

Overview

Cambridge IGCSE Mathematics is accepted by universities and employers as proof of mathematical knowledge and understanding.

Successful Cambridge IGCSE Mathematics candidates gain lifelong benefits, including:

- the development of their mathematical knowledge
- confidence, by developing a feel for numbers, patterns and relationships
- an ability to consider and solve problems and present and interpret results
- skills in communication and reasoning using mathematical concepts
- a solid foundation for further study.

Content

- Numbers: vocabulary, operations, factors, multiples, powers and roots, percentages, exponents, rationalization, estimating, significance etc
- Algebra: solution, linear, quadratic, deviation, fractions, sequences etc
- Functions: domain and range, logarithmic functions, exponentials etc
- Geometry: angles, rotational symmetry, circles, similarity etc
- Transformations and Vectors
- Mensuration
- Co-ordinate Geometry
- Trigonometry
- Sets
- Probability
- Statistics

Assessment Outline

External Assessment		Coursework	
Paper One Short response questions	45 mins 20%	Paper Two Extended response questions	2 hours 15 mins 60%
Paper Three One investigation and one modelling question	1 hour 30 mins 20%	No coursework	

Additional Mathematics

Overview

Cambridge IGCSE Additional Mathematics is accepted by universities and employers as proof of essential mathematical knowledge and ability.

The Additional Mathematics syllabus is intended for high ability candidates who have achieved, or are likely to achieve, Grade A*, A or B in the Cambridge IGCSE Mathematics examination.

Successful Cambridge IGCSE Additional Mathematics candidates gain lifelong skills, including:

- the further development of mathematical concepts and principles
- the extension of mathematical skills and their use in more advanced techniques
- an ability to solve problems, present solutions logically and interpret results
- a solid foundation for further study.

Content

- Set language and notation
- Functions
- Quadratic functions
- Indices and Surds
- Factors of polynomials
- Simultaneous equations
- Logarithmic and exponential equations
- Straight line graphs
- Circular measure
- Trigonometry
- Permutations and combinations
- Binominal expansions
- Vectors
- Matrices
- Differentiation and integration

Assessment Outline

External Assessment		Coursework
Paper One 10-12 questions	2 hours 50%	None
Paper Two 10-12 questions	2 hours 50%	

Sciences

Biology

Overview

Cambridge IGCSE Biology 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
 - recognise 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
- better understand the influence and limitations placed on scientific study by society, economy, technology, ethics, the community and the environment
- develop an understanding of the scientific skills essential for both further study and everyday life.

Content

- Characteristics and organisation of living organisms
 - Cells
 - Molecules and enzymes
 - Plants
 - Nutrition
 - Diseases and immunity
 - Respiration
 - Drugs
 - Reproduction
 - Selection and variation
 - Environment and Ecosystems

Assessment Outline

External Assessment			
Paper One Multiple choice questions	45 mins 30%	Paper Three Written short answers OR	1 hour 15 mins 20%
Paper Two Written short answers	1 hour 45 mins 50%	Practical test	1 Hour 20%

Chemistry

Overview

Cambridge IGCSE Chemistry 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
- recognise 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
- better understand the influence and limitations placed on scientific study by society, economy, technology, ethics, the community and the environment
- develop an understanding of the scientific skills essential for both further study and everyday life.

Content

- Matter
- Experimental techniques
- Atoms and compounds
- Stoichiometry
- Energetics and reactions
- Reactions
- Acids, bases and gases
- Periodic table
- Metals, air and water
- Carbonates
- Organic chemistry

Assessment Outline

External Assessment			
Paper One Multiple choice questions	45 mins 30%	Paper Three Written short answers OR	1 hour 15 mins 20%
Paper Two Written short answers	1 hour 45 mins 50%	Practical test	1 Hour 20%

Physics

Overview

Cambridge IGCSE Physics 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
- recognise 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
- better understand the influence and limitations placed on scientific study by society, economy, technology, ethics, the community and the environment
- develop an understanding of the scientific skills essential for both further study and everyday life.

Content

- General physics
- Thermal physics
- Properties of waves, light and sound
- Electricity and magnetism
- Atomic physics

Assessment Outline

External Assessment			
Paper One Multiple choice questions	45 mins 30%	Paper Three Written short answers OR	1 hour 15 mins 20%
Paper Two Written short answers	1 hour 45 mins 50%	Practical test	1 Hour 20%

Business

Overview

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 analyse business situations and reach decisions or judgements.

Prior learning: We do not expect learners starting this course to have previously studied business studies.

Content

- Understanding business activity
- People
- Marketing
- Operations management
- Financial information and decisions
- External influences

Assessment Outline

External Assessment		Coursework
Paper One Written Short answers and structured answers	1 hour 30 mins 50%	None
Paper Two Written Short answers on Case Study	1 hour 30 mins 50%	

Economics

Overview

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 judgements 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.

Assessment Outline

- Resource allocation
- Markets
- Individual as consumer and producer
- Private firms
- Role of government
- Economic indicators
- Trends
- International aspects

Assessment Outline

External Assessment		Coursework
Paper One Multiple choice	45 mins 30%	None
Paper Two Written answers	2 hours 15 mins 70%	

History

Overview

Cambridge IGCSE History is accepted by universities and employers as proof of knowledge and understanding of History. It is especially useful for careers in Law, Public Service, Media, Film, Journalism, United Nations and NGO's.

History:

- Stimulates an interest in and enthusiasm for learning about the past
- Promotes the acquisition of knowledge and understanding of individuals, people and past societies
- Ensures an understanding and skill in the use of evidence and debate
- Promotes an understanding of key historical concepts: cause and consequence, change and continuity, and similarity and difference
- Encourages international understanding
- Encourages the development of key learning skills like research, writing, investigation, analysis, critical thinking, evaluation and communication.

Prior Knowledge: None required

Content

Twentieth Century Modern World History

- International Relations since 1919: Versailles Peace Treaties, Interwar Years, Origins World War Two, Cold War 1945-91 (Capitalism V Communism), Korean War, Cuba Missile Crisis, Vietnam War, India and Independence
- Two Country Studies: Germany 1918-45, China 1930-1990

Assessment Outline

External Assessment		Coursework	
Paper One Written Short answers on World History	2 hours 40%	One piece extended writing from Case Study topics	27%
Paper Two Written Short answers on Case Study	2 hours 33%		

ICT

Overview

Cambridge IGCSE Information and Communication Technology encourages learners 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.

Prior learning: We do not expect learners starting this course to have previously studied ICT.

Content

- 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 and applications
- The systems life cycle
- Safety and security
- Audience and Communication
- File management
- Images and Layout
- Styles
- Proofing
- Graphs and charts
- Document production
- Data manipulation and analysis
- Presentations
- Website authoring

Assessment Outline

External Assessment			
Paper One Written	2 hours 40%	Paper Three Data analysis and website authoring	2 hours 30 mins 30%
Paper Two Written Documentation production	2 hours 30 mins 30%		

Art and Design

Overview

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 artefacts 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. The syllabus is designed to accommodate a wide range of abilities, materials and resources, and allows the different skills of the teaching staff to be fully exploited. 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.

Cambridge IGCSE Art and Design has been designed to offer a broad choice of media and approaches so that candidates can produce a personal response and Centres can play to their strengths in terms of staff, expertise and interests.

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

Content

- Painting
- Printmaking
- 3 dimensional studies
- photography, digital
- graphic communication
- textile design

Candidates can respond to any component using any of the media above. However, the school decided on which component to offer.

Assessment Outline

External Assessment			
Component One Two studies	50%	Component Two Design based assignment	50%

Drama

Overview

Aims to:

- develop understanding of drama through practical and theoretical study
- understand role of actor, director and designer
- develop acting skills
- enable candidates devise some original pieces
- help communicate feelings and ideas
- understand performance process
- enjoy drama

Content

- Understanding repertoire
- Devising
- Acting skills

Assessment Outline

External Assessment		Coursework	
Paper One Written Short answers on plays	2 hours 30 mins 40%	3 pieces 1 individual piece 3-5 mins 2 group pieces 15 mins	60%