

## **IGCSE Curriculum at SISB 2018-2019**

The Cambridge IGCSE curriculum offers a variety of routes for learners with a wide range of abilities, including those whose first language is not English. The curriculum encourages learners to engage with a variety of subjects, and make connections between them.

For SISB, Cambridge IGCSE offers a flexible and stimulating curriculum, supported with excellent resources and training. The curriculum helps improve performance by developing skills in creative thinking, enquiry and problem solving. It is the perfect springboard to advanced study.

IGCSE curriculum develops learner knowledge, understanding and skills in:

Subject content

Applying knowledge and understanding to new as well as unfamiliar situations

Intellectual enquiry

Flexibility and responsiveness to change

Working and communicating in English

Influencing outcomes

Cultural awareness.

### Cambridge IGCSE Mathematics

An essential subject for all learners, Cambridge IGCSE Mathematics encourages the development of mathematical knowledge as a key life skill, and as a strong basis for more advanced study. The syllabus aims to build learners' confidence by helping them develop competence and fluency with mathematical concepts, methods and skills, as well as a feel for numbers, patterns and relationships. The syllabus also places a strong emphasis on solving problems and presenting and interpreting results. Learners also gain an understanding of how to communicate and reason using mathematical concepts.

### Cambridge IGCSE International Mathematics

Cambridge IGCSE International Mathematics has been developed for schools offering an international curriculum. It complements the IB curriculum, offering an assessment and certification at the end of the Middle Years Programme. Cambridge International Mathematics reflects the way today's learners like to learn: they will acquire a solid

foundation of mathematical skills and learn how to develop strategies for solving open-ended problems.

The course also allows learners to develop and sharpen their investigation and modeling skills, and introduces them to the use of graphical calculators - a necessary part of the IB Diploma.

### Cambridge IGCSE Biology

With an emphasis on human biology, the Cambridge IGCSE Biology syllabus helps learners to understand the technological world in which they live, and take an informed interest in science and scientific developments. Learners gain an understanding of the basic principles of biology through a mix of theoretical and practical studies. They also develop an understanding of the scientific skills essential for further study at Cambridge International A Level, which are useful in everyday life. As they progress, learners understand how science is studied and practised, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment.

### Cambridge IGCSE Chemistry

The Cambridge IGCSE Chemistry syllabus enables learners to understand the technological world in which they live, and take an informed interest in science and scientific developments. Learners gain an understanding of the basic principles of Chemistry through a mix of theoretical and practical studies. They also develop an understanding of the scientific skills essential for further study at Cambridge International A Level, skills which are useful in everyday life. As they progress, learners understand how science is studied and practised, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment.

### Cambridge IGCSE Physics

The Cambridge IGCSE Physics syllabus helps learners to understand the technological world in which they live, and take an informed interest in science and scientific developments. They learn about the basic principles of Physics through a mix of theoretical and practical studies. Learners also develop an understanding of the scientific skills essential for further study at Cambridge International A Level, skills which are useful

in everyday life. As they progress, learners gain an understanding of how science is studied and practised, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment.

### Cambridge IGCSE English - First Language

Cambridge IGCSE First Language English is designed for learners whose first language is English. The course enables learners to:

develop the ability to communicate clearly, accurately and effectively when speaking and writing

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 also 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 inference, and the ability to order facts and present opinions effectively.

### Cambridge English – Second Language

Cambridge IGCSE English 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 will improve their ability to understand and use English in a range of situations.

The aim is to achieve a level of practical communication ideal for everyday use, which can also form the basis for further, more in-depth language study. In Syllabus 0510, marks for the speaking component do not contribute to the overall grade candidates receive for the written components. A count-in speaking component is offered in Syllabus 0511.

### Cambridge IGCSE Geography

Through the Cambridge IGCSE Geography syllabus, learners will develop a 'sense of place' by looking at the world around them on a local, regional and global scale. Learners will examine a range of natural and man-made environments, and study some of the processes which affected their development. They will also look at the ways in which

people interact with their environment, and the opportunities and challenges an environment can present, thereby gaining a deeper insight into the different communities and cultures that exist around the world.

### Cambridge IGCSE History

The Cambridge IGCSE History syllabus looks at some of the major international issues of the nineteenth and twentieth centuries, as well as covering the history of particular regions in more depth. The emphasis is on both historical knowledge and on the skills required for historical research. Learners develop an understanding of the nature of cause and effect, continuity and change, similarity and difference and find out how to use and understand historical evidence as part of their studies. Cambridge IGCSE History will stimulate any learner already interested in the past, providing a basis for further study, and also encouraging a lifelong interest in the subject. Both coursework and non-coursework options are available.

### Cambridge IGCSE Business Studies

The Cambridge IGCSE Business Studies syllabus develops learners' understanding of business activity in the public and private sectors, and the importance of innovation and change. Learners find out how the major types of business organisation are established, financed and run, and how their activities are regulated. Factors influencing business decision-making are also considered, as are the essential values of cooperation and interdependence. Learners not only study business concepts and techniques but also enhance related skills such as numeracy and enquiry. The syllabus provides both a foundation for further study at Cambridge International A Level and an ideal preparation for the world of work.

### Cambridge IGCSE Computer Science

Learners following the Cambridge IGCSE Computer Science syllabus develop their understanding of the main principles of problem solving using computers. They can apply their understanding to develop computer-based solutions to problems using algorithms and a high-level programming language. Learners also develop a range of technical skills, as well as being able to effectively test and evaluate computing solutions. Studying Cambridge IGCSE Computer Science will help learners appreciate current and emerging computing technologies, the benefits of their use and recognise their potential risks. Cambridge IGCSE Computer Science helps learners develop an interest in computing

and gain confidence in computational thinking. It is an ideal foundation for further study at Cambridge International AS and A Level, and the skills learnt can also be used in other areas of study and in everyday life.

### Cambridge IGCSE Art & Design

The Cambridge IGCSE Art & Design syllabus aims to encourage a personal response by stimulating imagination, sensitivity, conceptual thinking, powers of observation and analytical ability. Learners gain confidence and enthusiasm as they develop technical skills in two and three dimensional form and composition, and are able to identify and solve problems in visual and tactile forms. They also learn how to develop ideas from initial attempts to final solutions. An ideal foundation for further study, Cambridge IGCSE Art & Design also develops a greater awareness of the role played by the visual arts in society and in history, broadening cultural horizons and individual experience.

### Cambridge IGCSE Music

When studying the Cambridge IGCSE Music syllabus, learners listen to, perform and compose music, encouraging aesthetic and emotional development, self-discipline and, importantly, creativity. As a result, learners enhance their appreciation and enjoyment of music, an achievement that forms an ideal foundation for future study and enhances life-long musical enjoyment. Learners study music of all styles; each style is placed in its historical and cultural context, and they are encouraged to be perceptive, sensitive and critical when listening. Although the majority of the syllabus examines Western European music, the music of other cultures is always represented.

### Cambridge IGCSE Economics

The Cambridge IGCSE Economics syllabus develops an understanding of economic theory, terminology and principles. Learners study the economics of different countries and how these interrelate. They also learn to work with simple economics data and to use the tools of economic analysis. Learners apply understanding of economics to current economic issues. The Cambridge IGCSE Economics syllabus provides a foundation for further study, including Cambridge International AS & A Level Economics, or the equivalent.

### Cambridge IGCSE Thai - First Language

The Cambridge IGCSE First Language Thai syllabus is for learners whose first language is Thai. This First Language syllabus develops learners' ability to communicate clearly, accurately and effectively. 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. Learners are also encouraged to read widely, for their own enjoyment and to develop an appreciation of how writers achieve their effects. The syllabus also complements other areas of study by encouraging skills of more general application.

### Cambridge IGCSE Chinese as First Language

The Cambridge IGCSE First Language Chinese syllabus is designed for learners whose first language is Chinese. The syllabus develops learners' ability to communicate clearly, accurately and effectively. 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.

Learners are also encouraged to read widely, both for their own enjoyment and in order to develop an appreciation of how writers achieve their effects. The syllabus also complements other areas of study by encouraging skills of more general application.

### Cambridge IGCSE Chinese as Second Language

Cambridge IGCSE Chinese as a Second Language is designed for learners who already have a working knowledge of the language and who want to consolidate their understanding to progress their education or career. Through their studies, learners achieve a thorough understanding of a wide range of registers and styles and learn to communicate appropriately in different situations.

The syllabus focuses on the linked language skills of reading, writing, listening and oral communication. Through their study of Cambridge IGCSE Chinese as a Second Language, 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.

### Cambridge IGCSE Chinese (Mandarin) as Foreign Language

This syllabus is designed for learners who are learning Mandarin Chinese as a foreign language. The aim is to develop an ability to use the language effectively for purposes of practical communication. The course is based on the linked language skills of listening,

reading, speaking and writing, and these are built on as learners progress through their studies.

The syllabus also aims to offer insights into the culture and civilisation of countries where Mandarin Chinese is spoken, encouraging positive attitudes towards language learning and towards speakers of foreign languages.