



Curriculum Information
Autumn 2017-18
Year 10

Non Mihi, Non Tibi, Sed Nobis

Coordinated Science Double Award (Mr. Anthony Binger)

This very demanding course starts with Biology by considering the basic characteristics of living things and looks at the cell as the building block of life. We will look at plant and animal nutrition in detail and consider aspects of how materials are transported around organisms. In Chemistry we look at the elements as the basis of the most fundamental chemistry tool, the periodic table. Our Physics section also looks at atoms and matter and studies energy and motion, the very basis of all physics concepts. It is important, since we are looking at the fundamental concepts in each of the Science disciplines, that this early work is covered thoroughly and well understood by pupils.

English (Mr. Mike and Ms. Leanne)

This term, the pupils will focus on the English Language IGCSE and they will be producing two pieces of coursework which will contribute towards their final grade. For both pieces of coursework the pupils need to demonstrate that they can write in a clear and coherent manner, and adapt their writing for different purposes. The first piece of writing will be writing a persuasive piece of writing, which will require them to demonstrate a developed understanding of persuasive writing techniques. The second piece of writing will require the pupils to create a descriptive piece focusing on a post-apocalyptic environment. The pupils will need to utilise a range of devices including figurative language, symbolism and sentence structures for effect.

Business Studies (Ms. Lily)

During the Autumn term, Year 10 Business Studies students will be studying the basics of business activities, classification of businesses (primary, secondary and tertiary production) and the different types of business organizations, from sole traders, partnerships, limited companies, franchises and joint ventures. We will be examining real life businesses in Penang / Malaysia to identify what makes this country so successful in the business world.

Pure Science (Ms. Nellie-Biology , Mr. John-Physics and Chemistry)

Biology – Students will start off with learning the various classes of animals. This will be followed by understanding how substance move in and out of cells and how the cells can control this. They will then learn the main types of biological molecules and the action of enzymes. After the half-term, students will start learning about how plants make food and how substances are transported around plants before moving on to explore the alimentary canals of an animal.

Chemistry: At the beginning, students will learn about the states of matter and their properties. They will be exposed to some basic experimental techniques and different methods of separating mixtures. Students will learn about compounds and mixtures, and the atomic structure of elements and atoms combining. They will learn to distinguish between ionic and covalent bonding and the types of compounds formed. In order to study about the element on earth and their properties, students will be introduced to the trends in the Periodic Table, elements in Group I and VII, transition elements and noble gases. Further on, students will be learning 'Air and water' about the components of air and their uses, the air pollutants, rusting problems, and the water treatment. Finally, students will be introduced to writing chemical formulae and balancing equations before they go further to 'Mole' concept.

Physics: At the beginning, students will be learning about light and its properties such as reflection, refraction and dispersion of light. Further on, they will learn about different type of lenses, the types of electromagnetic waves and their characteristics. Later, they will be exploring 'Electricity' which includes some important quantities such as current, potential difference, and resistance. They will be learning how to differentiate some electrical components and symbols, and between series and parallel circuits too. Lastly, student will start exploring the concept of energy, work and power, energy transformation, energy resources which include renewable and non-renewable sources of energy in 'Forces and energy'.

Extended Maths (Mr Shahrul Afzanizam and Ms. Yogeswari Boghan)

This term will begin with Numbers and Approximation (the concepts of Significant Figures, writing number in Standard Forms, approximation and Lower bound and Upper bound), Matrices (displaying information, order, addition and subtraction of matrices, multiplying scalar), Sets (set language, Venn diagrams, listing sets and sets notation), Percentages (using percentage to compare amount, calculate the GST, percentage change, profit and loss, reverse percentage and repeated percentage change) and Area and Volume (Circumference of a circle, area of a circle, sectors, arcs three dimensional shapes, planes of symmetry, volume and surface area). Revision of the previous topics will be part of this term too. Students will be exposed to past IGCSE questions in order to prepare them for the final exams in June next year.

Global Perspectives (Ms. Lily)

During the Autumn term, Year 10 Global Perspective students will be learning skills such as research, analysing and evaluating information, as well as developing and justifying a line of reasoning for global topics on how human and animals are treated in different countries and the impact that this has on individuals and companies. We will also be looking at biodiversity and eco system loss and how we can suggest ways in which to improve the environment and make the world a better place to live.

Additional Mathematics (Ms Yogeswari Boghan)

This term will begin with Simultaneous Equations, Indices-Surds and Logarithms, Quadratic Expressions and Equations, and the Remainder and Factor Theorems. Revision of the previous topics will be part of this term too. The students will be exposed to exam-typed questions and problem solving questions in order to brush up their knowledge and understanding, as well as to build their confidence in Additional Mathematics as part of their preparation for IGCSE.

Music (Ms. Ellie Saunders)

This term will lay the foundation for the IGCSE. The course is divided into three components: composing (30%), performing (30%) and a written paper (40%). The pupils will be set theory work which will enable them to begin to explore the Western Classical Traditional section of the written paper whilst developing their composition skills. Interspersed within the composition will be tasks to develop theoretical skills, aural awareness, performance skills and key vocabulary.

The pupils will be expected to complete homework tasks which include using interactive websites, learning key vocabulary, preparing for performances and analysing set works. There will be opportunities for performances in the Twilight Concerts alongside assemblies and in class performances.

Art and Design (Mohd Shahrul Hasfis)

This term, students will learn about drawing and painting. For the first half term, they will learn about drawing. They will learn about types of drawing and skills. They will focus on the skill in drawing, rendering, toning and will learn about various type of materials. For another term, they will learn about the painting skill based on the art stream history. Students will become progressively more confident, skilled and versatile. I will also teach them to make sure that they will be able to work with various type of materials and skills before they face an exam.





Geography (Mr. Jeff)

It is a very exciting time as the Year 10 Geography group begin what hopefully will be a very successful journey through IGCSE Geography. For term 1, students will cover in great depth the topics of population and settlement. In particular, they will investigate how populations are changing and the challenges people face with a growing world population. After this we will move into settlement and investigate the changes of settlements over time, land use in cities and the challenges faced by the modern megacity in today's world. Each unit will include many case studies. The completion and revision of case studies is paramount to success in the course.

Edmodo code: nkdw4d

Mandarin as a 1st Language (Ms. Pang Sook Yee)

In the first half term, year 10 will review narrative and expository writing skills. They will begin to learn the argumentative structure and writing skill using brainstorming maps, debate and writing. They will learn some key words that are usually used in argumentative writing. During the second half term, they will know the format of IGCSE preparatory work, analysing paper one part one and paper two. They will become familiar with the examination format and the limited timing. In addition, students are encouraged to read more Chinese story books.

Mandarin as a 2nd Language (Ms. Soon Saw Imm)

This term, the students will learn the topic of "Stationery" and "Gifts". They will look at a range of comprehension passages which will contain the different types of sentence structure and vocabulary. These will be used as models for the students to create their own pieces of writing, especially theme based writing. Oral discussions will also enable students to have the opportunity to express themselves with more confidence. Listening tasks will take place on various types of articles from different themes to sharpen their listening skills so that they can be better prepared to face the challenge of IGCSE Paper 1. Students will be expected to write 80-100 words using appropriate vocabulary and sentence structure. The students will be expected to write a continuous piece of writing of 120 -180 words with varied vocabulary and appropriate sentence structure.

Malay Language (Mrs. Rabiahtul Bazariah & Mrs. Pattmagowri)

The themes for this term include "Sejahtera Sepanjang Usia, Cerita Rakyat and Jauh Perjalanan Luas Pengetahuan. The main objective is for students to acquire balanced proficiency in reading, writing, listening and speaking. New vocabulary will be introduced from time to time to enhance their foundation in grammar, reading comprehension, conversation and essay writing. In addition, they will also learn the language by reading newspapers, educational articles and academic papers. During lessons, students will be exposed to three major components throughout the semester, such as Essay writing (Penulisan), Reading comprehension (Pemahaman) and Grammar (Tatabahasa). In addition, such lessons will also help students improve their presentation skills through essay writing and oral presentations.

ICT (Mrs. Haniza Hussin)

This term, students will be introduced to the IGCSE curriculum syllabus and the assessment outline. As for the theory part, students will learn about the computer system, where they will be exposed to all the hardware and peripherals of a whole computer system. They will also study the basic concept of input, output and process in this unit. The practical aspect will focus on working with document production. Also, the students will get to gain experience of past years' IGCSE ICT practical papers.

Physical Education (Ms Rowan, Mr Dennis & Mr Vinod)

During this term, students will participate in Touch Rugby and Ultimate Frisbee. Students will learn techniques to improve accuracy for throwing and catching while on the move during team play. A range of activities will provide opportunities to develop and understanding how to score points, while improving agility for defence and teamwork. Team players will gain experience as both a players and a referee in a game situation During the second half of term, students will participate in a variety of running events, ranging from short to long distance and learn how to be competitive. Students will learn the correct technique for a crouch start in sprinting events and how to run more efficiently by co-ordinating the movement of key body components. Throwing and jumping strength and development will be a focus for field events within the Athletics unit. They will develop understanding the importance of safety when learning about the role of an Athletics official.

French (Mr. Michael Hayes)

In this first term of French, iGCSE students will be studying the topics of Home, town and local environment during the first part of the term. They will focus on key exam skills through listening, speaking, reading and writing activities which will also be balanced by a deeper understanding of French grammatical structures. In the second part of the term they will study Travel and Tourism and will be completing a past paper. Students are expected to understand and provide information and opinion about these themes relating to their own experience and those of other people, including people in countries where French is spoken. Students will begin to initiate and develop conversations and narrate events. Use a wide range of common vocabulary and grammatical structures; referring to the past, present and future.



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Upcoming Events

28 August 2017	First Day of Autumn Term
21 September 2017	Malaysia Day School Celebration
22 September 2017	Awal Muharram (Islamic New Year)
13 October 2017	Deepavali School Celebration
14-22 October 2017	Half Term Break
18 October 2017	Deepavali
26 October 2017	Halloween Disco
1 December 2017	Prophet's Birthday
18 December 2017	Parents Evening
19 December 2017	Christmas School Celebration
19 December 2017	Last Day of School