

YEAR 10

Mathematics Faculty

Head of Faculty: Mrs H Lopez

Mathematics (Year 10 students taking the core course)

T1

Students will begin their IGCSE course by studying the following topics:

- Number & limits of accuracy
- Ratio, proportion and percentages
- Graphs
- Algebraic representation & manipulation
- Equations & inequalities
- Mensuration

Topic tests and progress test

T2

- Straight line graphs
- Graphs of functions
- Indices
- Angle properties
- Trigonometry
- Geometrical relationships
- Mensuration

Topic tests

T3

Students will cover the following topics:

- Symmetry
- Vectors
- transformations
- probability and handling data

Topic tests and final exam

Mathematics (Year 10 students taking the extended course.)

T1

This term students will begin their IGCSE course in Maths. They will be studying the following topics:

- Number: This section covers arithmetic, number facts, sequences, approximations and estimations, standard form, ratio and proportion, percentages, speed, distance and time and use of a calculator.
- Algebra I: This unit covers the study of directed numbers, formulae, brackets, equations.
- Mensuration: arc length & sector area, chord of a circle, volumes & surface areas

Topic tests and progress test

T2

- Sets
- Algebra II: This unit covers the study of algebraic fractions, changing the subject of a formula, variation, indices and inequalities.
- Geometry: basic concepts, pythagoras theorem, symmetry, similarity, circle theorems constructions, loci, nets.

Topic tests

T3

- In graphs, students will learn to draw accurate graphs, find gradients, plot curves and find graphical solutions and draw and interpret distance-time, speed time graphs. They will also learn linear programming.
- Trigonometry.

Topic tests and final exam

Mathematics (Year 10 students taking the express course)

T1

- Number: This section covers arithmetic, number facts, sequences, approximations and estimations, standard form, ratio and proportion, percentages, speed, distance and time and use of a calculator.
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- Algebra I: This unit covers the study of directed numbers, formulae, brackets, equations.
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- Mensuration: arc length & sector area, chord of a circle, volumes & surface areas
-
- Algebra II: This unit covers the study of algebraic fractions, changing the subject of a formula, variation, indices and inequalities.
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- Geometry: basic concepts, pythagoras theorem, symmetry, similarity, circle theorems, constructions, loci, nets.
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- Trigonometry
- Right angled triangles
- Scale drawings,

- 3-dimensional problems,
- Sine, cosine and tangent of an angle,
- Sine & cosine rule.
- Graphs including linear programming
- Sets
- Functions
- Vectors in 2D

Topic tests and progress test

T2

- Matrices and transformations
- Statistics and probability

The IGCSE Maths course is completed and students will take a mock exam. They then begin the Add Maths course and study the following:

- Simultaneous equations
- Factor & Remainder Theorem
- Indices , surds & logarithms

Topic tests

T3

Students will continue with the study of Add Maths. The following will be covered:

- Circular measure
- Binomial theorem
- Theory of quadratic equations
- Relations & functions

Topic tests and final exam

Mathematics (Option D students)

T1

- Number : This section covers arithmetic, number facts, sequences, approximations and estimations, standard form, ratio and proportion, percentages, speed, distance and time and use of a calculator.
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- Algebra I: This unit covers the study of directed numbers, formulae, brackets, equations.
-
- Mensuration: arc length & sector area, chord of a circle, volumes & surface areas
-
- Matrices and Transformations: matrix operations, Route matrices & data storageThe inverse of a matrix, simple transformations, combined transformations, transformations using matrices

- Statistics & Probability: data display, Mean, median and mode, cumulative frequency, simple probability, Exclusive and independent events, Tree diagrams
-
- Functions: vectors in two dimensions, column vectors, vector geometry

Topic tests and progress test

T2

- Sets
- Algebra II: This unit covers the study of algebraic fractions, changing the subject of a formula, variation, indices and inequalities.
- Geometry: basic concepts, pythagoras theorem, symmetry, similarity, circle theorems constructions, loci, nets.
- Graphs: drawing accurate graphs, gradients, the form $y = mx + c$, linear laws, plotting curves, interpreting graphs, graphical solution of equations, distance-time graphs, speed-time graphs, linear programming
- Trigonometry: right-angled triangles, scale drawing, three-dimensional problems, sine, cosine, tangent for any angle, the sine rule, the cosine rule

Topic tests

T3

- Indices,
- Surds
- Logarithms
- Circular Measure
- Coordinate Geometry-the Straight line
- Simultaneous Equations,
- Remainder & Factor Theorem
- Theory of Quadratic Equations & Functions
- The Binomial Theorem
- Relations & Functions

Topic tests

Final exam

English Faculty

Head of English: Ms A Owen

First Language English: Syllabus code 0500

Literature, English: Syllabus code 0486

During term one students will start studying their first Literature examination text in the drama genre whilst also studying informative, analytical, discursive and persuasive writing for their Language study.

Students may complete their first Literature coursework piece, based on the drama text studied, to start developing their coursework writing skills.

Students will also complete a range of speaking tasks, working in pairs or groups, to prepare presentations or dramatic performances to continue developing their Speaking and Listening skills.

During term two students will complete work on the second Literature examination text, poems from the anthology 'Songs of Ourselves'. They will also work on their first Language coursework piece which will involve completing an assignment based on a non fiction text, such as a newspaper report or a magazine article.

During term three students will move on to study the last of their Literature texts, When Rain Clouds Gather. Their Language study will be developed to deal with the narrative and descriptive techniques.

Assessment Methods:

Throughout the year, students will be set essays of between 800 – 1000 words on the set texts and on the non fiction pieces studied. All pieces will be assessed using the IGCSE criteria to enable students to assess their progress as well as look at the areas they need to develop – further details regarding the criteria can be found in the student hand book issued at the beginning of year 10. Some pieces will be set as potential coursework pieces whilst others will be for practicing skills and for revision purposes.

Students will also be undertaking formal examinations in both Language and Literature at the end of term three.

Science Faculty

Head of English: Ms N Mason

Double Science (Coordinated Science)

T1

Chemistry: The elements of Chemistry
 Classifying elements
 Atoms, bonding and Periodic Table
 Materials and Structures

Biology: Cellular organization and Function

Photosynthesis

Physics: Kinematics
Mechanics

T2

Biology - Gaseous exchange in plants & animals
- Transport Systems
- Respiration
- Diet and Health

Chemistry - Metals & Alloys
- Solvents & Solutions
- Acids & Alkalis

Physics - Energy transfer
- Electricity

T3

Chemistry Fertilisers
Drugs, dyes & colloids

Biology Digestion
Co-ordination & control
Homeostasis

Physics Waves
Kinetic energy and momentum

Assessment

Students are assessed throughout the year via classwork, homework projects, practical work and end of unit progress reviews.

Physics

Head of Physics: Mr J Grierson

Students follow the Cambridge international GCSE specification.

T1

- Light
- Waves

T2

- Electricity

- Energy

T3

- Mechanics
- Practical skills

Assessment

Students will be assessed throughout the year by classwork, homework projects and end of unit progress reviews.

Biology

Head of Biology: Miss J Kaur

Students follow the Cambridge international GCSE specification.

T1

- Characteristics of living organisms
- Cell structure and organisation
- Levels of Organisation
- Diffusion, Osmosis
- Nutrition, nutrients, enzymes
- Plant physiology-nutrition

T2

- Plant Nutrition
- Plant Transport
- Transport in Humans
- Respiration

T3

- Circulatory System
- Respiration
- End of Year Examination
- Classification of living organisms
- Relationship of Organisms with one another

Assessment

Assessment will occur throughout the year via classwork, homework projects and end of topic progress reviews

Chemistry

Head of Chemistry: Mr. J Donaldson

Students follow the Cambridge international GCSE specification.

T1

- Atoms, Elements, Compounds
- The Periodic Table
- Chemical Bonding
- Particulate nature of Matter
- Experimental techniques
- Bonding
- Metals

T2

- Experimental techniques
- Stoichiometry
- Air & water
- Carbonates
- Chemical changes

T3

- Chemistry Reactions
- Speed
- Reversible reactions
- Haber process
- Practical skills

Modern Foreign Languages Faculty
Head of Faculty: Miss G Bruce

French

Head of French: Gianfranco Conti

T1

The students will complete units 1 and 2 in METRO 4. The students will practise the four language skills across the following topic areas, situations and communicative functions: describing one's school; talking about the school timetable, rules and issues and one's further educational plans. They will also practise describing personality, talking about relationships and helping at home. All the tenses covered in the last three years will be reinforced.

T2

The students will complete units 3 and 4 in METRO 4. The students will practise the four language skills across the following topic areas, situations and communicative functions: understand info about cinema and entertainment; expressing likes and dislikes; making arrangements; meeting people; what one did at the week-end; talking about part-time jobs and work experience; using the phone, fax and e-mail; work. All the tenses covered in the last three years will be reinforced.

T3

The students will complete units 5 and 6 in METRO 4. The students will practise the four language skills across the following topic areas, situations and communicative functions: describing a town; talking about the town versus the countryside; the French speaking world; Discussing environmental issues.

Spanish

Head of Spanish: Mr N McKenna

T1

Students will continue to study from Listos 3 textbook and will study:

Module 4: Travel

- Getting travel information
- Finding your way around the station
- Expressing opinions about travel
- Dealing with accidents and breakdowns
- Describing what happened

The course will continue to examine student's grammatical knowledge and knowledge of the past, present and future tenses will be required and assessed formally in an end of unit assessment. The assessment will contain listening, speaking, reading and writing activities. Weekly extended writing assignments will be done by students.

The examination will take the form of IGCSE assessment and all students will undertake a 10 minute oral assessment in addition to the listening, reading and writing assessments.

Module 5: What has happened?

- Saying why you feel ill
- Booking hotel accommodation
- Checking into a hotel or campsite
- Describing lost property
- Making complaints in a hotel

T2

In term 2 of their IGCSE course the pupils will continue with their study of Module 5, Listos 3.

Module 5: What has happened?

- Saying why you feel ill
- Booking hotel accommodation
- Checking into a hotel or campsite
- Describing lost property
- Making complaints in a hotel

The course will continue to examine student's grammatical knowledge and knowledge of the past, present and future tenses will be required and assessed formally in an end of unit assessment. The assessment will contain listening, speaking, reading and writing activities. Weekly extended writing assignments will be done by students.

Module 6: At Home and At Work

- Saying what you do to help at home and why
- Describing part-time jobs and how you spend your money
- Talking about work experience

T3

Students will continue to work through the Listos 3 textbook, following units containing the following topics:

Future Plans

- Discussing the options for further study
- Career choices
- Making a job application
- Thinking about the future

At this stage of study the students will take a formal IGCSE style assessment on all Listos 3 topics undertaken both in Years 9 and 10. All students will take listening, speaking, reading and writing examinations which will be assessed in line with IGCSE mark schemes.

After the examinations all students study the following topic:

Environment

- Where do I live
- The good and the bad about where I live
- What did it used to be like
- Environmental issues

Students understanding will be examined through written exercises.

Mandarin

Head of Mandarin: Mrs V Yap

T1

In term one, students will work on Chinese Made Easy Book 3, studying the following topic areas:

- Body parts
- Describing yourself
- Comparing two people
- Describing how you feel when you are sick
- Currency
- Measure words
- Talking about Chinese food and western food
- Chinese idioms and stories.

Students are assessed regularly by class tests and an end of unit test nearing the end of term.

T2

In term two, students will work on Chinese Made Easy Book 3, studying the following topic areas:

- Describing how you feel when you are sick
- Currency
- Talking about Chinese food and western food
- Chinese idioms and stories

Students are assessed regularly by class tests and an end of unit test nearing the end of term.

T3

In term three, students will work on Chinese Made Easy Book 3, studying the following topic areas:

- Talking about Chinese food and western food
- Talking about food and health
- Measure words
- Chinese idioms and stories

Students are assessed regularly by class tests and an end of year exam modeling the Year 11 mock exam at the end of term 3.

Malay

Head of Malay: Ms P Muniandy

T1

In term one, students will begin their IGCSE course in Foreign Language Malay by describing their school, talking about their timetable, talking about rules and regulations and the difficulties of school and their future educational plans. They will also focus on describing personalities, talking about friendships and helping out at home. Besides oral work, students will carry out listening, reading and writing exercises related to the above topics.

Students in the Fast Track after school group will cover these topics: school, personality, cinema, making arrangements, accepting invitations, applying for a temporary job and place they live in. They will also work on past year papers and prepare for the mock exam in January.

All students will be involved in the reading scheme where they will read Malay stories and be asked to do a book review twice a term. On top of this, students in the top sets will borrow books from the library once a week to read for pleasure. Students in the top sets will also be required to read newspapers in the classroom.

Assessment: End of Unit Test which covers Reading and Writing Skills

T2

In term 2, students will cover: cinema and other entertainment likes and dislikes, making plans to go out, accepting invitations and activities during the weekend. Students will also learn about the world of work and talk about their future educational plans.

The Fast Track after school group will cover making arrangements, describing a town, environmental issues, shopping, reporting a loss, making a complaint in a restaurant, the mass media, accidents, illnesses and healthy lifestyles. They will do past year papers and intensive revision to prepare for the IGCSE exam.

Students will also read story books and do book reviews as part of the reading programme held every term.

Assessment: End of Unit Test which covers Speaking and Writing Skills

T3

Students will talk and write about their town and discuss environmental damage. They will discuss shopping for clothes and spending pocket money. All students will learn how to write a report on the loss of valuables.

Revision will also be carried out for the end of year examination which covers Speaking, Reading and Writing Skills..

The fast track group will cover the topics on "Accidents", "Buying tickets for a journey", "Environmental issues" and "Traditions". They will also do intensive revision for the IGCSE examination.

The reading scheme will continue where students will read a story book and do an activity based on the book. Higher ability students will also be encouraged to read independently by borrowing books from the library and reading for pleasure.

Students also will be attempting to practice on Students will talk and write about "Holidays". In this unit, students will learn about different types of holidays, accommodation, places of interest, write an advert of Holiday resort, complaints about services at a hotel and describe an experience at a holiday spot. Revision will also be carried out for the end

Humanities Faculty

Head of Humanities: Ms K Haward

History

Head of History: Mr. D Kinvig

Students this term will be studying for Paper 1 and will begin with:

Theme 1: International Relations, 1919-1939,
The search for international order between 1919 and 1930

- Peacemaking after the First World War - its effect on Europe, Africa, Asia and the Pacific Region.
- The League of Nations - structure, weaknesses, successes and failures.
- International agreements - Locarno, Dawes and Young Plans, Washington Treaties, Kellogg-Briand Pact. The collapsed international order in the 1930s.
- The emergence of aggressive nationalism in Japan, Italy and Germany, including Japanese expansion into China; the Italian invasion of Abyssinia and her involvement in the Spanish Civil War; German re-armament and foreign policy from 1933-39.

After completing the unit on International Relations in the 1930's the focus for this term is on the United States. Topics covered will be

- Important characteristics of the 'Roaring 20's' in USA.
- Policies of Republican Presidents Coolidge, Harding and Hoover which helped in sustaining the 'boom period' in America.
- Events leading to the Wall Street Crash, reasons for the depression, effects at home and internationally.
- President Roosevelt's New Deal.

Students will also be taught the necessary skills involved in examining sources of evidence. The course will also include tests and assignments.

During the third term students will examine international relations in the 1930s. This will include the Wall Street Crash, the New Deal in the USA and Hitler's foreign policy. Particular focus will be given to the policy of appeasement and the events, which led to the war in September 1939.

Students are regularly assessed at the end of each unit of work using past paper questions and these are marked according to IGCSE criteria using the Cie markschemes and grade boundaries.

Geography

Head of Faculty / Geography: Miss K Haward

Students begin their IGCSE Geography course by looking at Population and Settlement. This unit covers population growth and dynamics, population structures and settlement size, location and growth. The next part of the course is Landforms and Landscape Processes, in which a range of topics is covered, including river basins, coastal environments and landforms shaped by weathering. Students are also given opportunities to develop their map skills, in preparation for Paper 2 of the IGCSE. In the latter part of the second term, students investigate Energy and Water Resources, considering issues of consumption and sustainable resource use.

Term three begins with the unit on Leisure and Tourism includes investigation of the impacts of tourism on destinations at varying levels of economic development. Linked with this unit, students will carry out local field studies in preparation for Paper 4 of the IGCSE course. Students will also study issues of Resource Conservation and Management.

Students are assessed at regular intervals throughout the course. They are given opportunities for peer- and self-assessment of their work as well as end-of-unit tests.

Environmental Management

Students begin their IGCSE studies by looking at the Hydrosphere. This unit covers issues of:

- The water cycle and fresh water supply
- Flooding and drought
- Water pollution and diseases
- The oceans, fisheries and pollution

The unit provides both the theoretical basis for IGCSE study, as well as real-world examples on both a local and global scale. It includes the incorporation of new skills; for example, students will have a global perspective and draw upon their skills of enquiry and decision making about key issues surrounding the management of the environment.

Students continue by investigating the Atmosphere. This unit includes study of the contemporary environmental issues of:

- Atmosphere and air pollution
- Climate and agriculture
- Climatic hazards

Students are assessed at regular intervals throughout the course. As well as end of unit tests which are based on past examination papers, students are given opportunities for peer- and self-assessment of their work.

Sociology

Head of Sociology: Mr I Ruck

T1

Students will begin their IGCSE course in Sociology beginning with 'Culture and Socialisation'. In this topic, they will learn the relationship between culture, society and the individual. This involves a consideration of the processes and agencies of socialization. They will study the distinction between biological, psychological and social explanations of human behavior. They will also learn the forms of socialization and the processes of socialization. Culture and sub-culture norms, values, beliefs and values will be taught and students will find out what conformity and non-conformity is. Towards the end of the term students will be starting Module 2; Social Stratification.

T2

Topics covered this term are:

- Social Stratification and Inequality
- Research Methodology

The course will also include the development of essay and examination skills. Regular tests and assignments will be set. At the end of each Unit students should be given an End of Unit test to assess their learning in this area.

T3

Students will be completing research methods initially. After the Year 10 exam they will complete a project to support the three modules that they have addressed in this academic year.

Information and Communications Technology Faculty

Head of Faculty: Mr. M Smith

Information Technology

T1

Pupils will continue to develop and revise skills across the practical disciplines at intervals throughout the year. However, the focus of the course will primarily be theory. They will study the components of a computer system, input and output devices, storage devices and media, data types.

T2

Pupils will continue to learn about a wide range of theory topics including computer networks, the effects of using information technology.

T3

Pupils will continue to learn about a wide range of theory topics including the ways in which ICT is used and systems analysis and design.

Assessment

Assessment in ICT is ongoing and takes three main forms: self assessment, peer assessment and teacher assessment. The aim is to maximize the benefit to learning throughout each module. The main mark for each module will be from the last exam practice exercise carried out in class. Year 10 pupils will sit a practical exam and theory exam in the summer term which will provide their final grade for the year.

Computer Studies

T1

Theory work throughout the next 2 years will make up 75% of the total IGCSE. The majority of the theory work will be covered in Year 10. Topics for this term are The Computer System, The Central Processing Unit, Data Representation and Data Capture and Input, Backing Store Devices and Types of System. Tests will be given at the end of each module to ensure students have understood and learned the necessary work. Practical work will involve Programming, Word Processing, Spreadsheets, Modelling, Desktop Publishing, Measurement and Control, Graphics Packages, CAD and Databases.

T2

Theory work will make up 75% of the total IGCSE. The majority of the theory work will be covered in Year 10. Topics this term will include Types of Systems and Operating Systems. A test will be given at the end of each module to ensure students have understood and learned the necessary work. Practical work will take the form of System Analysis, Problem Solving and learning Databases and Visual Basic programming. These will be used for creating their major projects. The major project will eventually make up 25% of the final IGCSE examination mark.

T3

Theory (75%)

A majority of the theory work has already been covered. This term will only include topics on Communications, Types of system, the Range and scope of computer applications and the Social and economic implications of the use of computers. A test will be given at the end of these topics to ensure students have understood and learned the necessary work. The end of year examination, which will cover all theory, will follow this and practical topics studied this year.

Practical (25%)

Students will be concentrating on the main steps involved in System Design. With supervision they should be able to apply the main principles of System Development in their coursework projects. Students will continue learning MS Access. This will be used for creating their major projects. The major project will eventually make up 25% of the final IGCSE examination mark.

Drama Faculty

Head of Faculty: Miss J Lee

The Year 10 IGCSE coursework is made up of Group Devised performances, Group Scripted performances and Individual Monologues. By the end of Year 10 Drama students will have completed one performance of each of the coursework elements.

Assessment

The coursework is assessed and internally marked using the Cambridge Examination mark scheme.

T1

Through practical work, students will extend their knowledge of devising theatre by drawing on newspaper articles, real life events, poems, music and images to create their first devised performance. The topic for the devised theatre is Body Image.

T2

During term two students have the opportunity to study and perform 'Bouncers' and 'Shakers' by John Godber. These texts allow opportunity for comedy and multi-role-playing. Through a series of workshops and rehearsals students will further their acting and directorial experience by creating a polished final piece.

T3

This term students will study a variety of pre-released material in preparation for their Year 10 Mock exam. In doing so they will create devised performances that can be written about under exam conditions. This practical work also qualifies as coursework. Students will practice using appropriate terminology in their critical analysis and develop a writing style under the pressure of exam conditions.

After the mock exams students will rehearse and perform monologues for their final coursework component.

Music Faculty

Head of Faculty: Mr J Long

Throughout year 10 pupils will build upon, strengthen and increase their musical skills, knowledge and understanding through the activities of **Performing, Composing, Listening and Appraising**.

T1 & 2

Terms 1 and 2: IGCSE coursework includes individually based composition, performance (solo and ensemble) and the development of further listening and analytical skills.

- Composing: Techniques for shaping and developing melodies in a variety of modal/major and minor keys. Harmonization and accompaniment techniques. Compositional structures focusing upon binary and ternary form.
- Performing: Solo performing - students will be required to perform a short piece of their own choice on their first instrument before the end of term. Ensemble performing – all year 10 music students must attend weekly rehearsals with the School Orchestra and / or School Choir. This is an essential and compulsory course component.
- Listening and Analysis: In term one and two detailed analytical techniques, focusing upon the elements of music are studied. Stylistic features, compositional techniques, idioms and structures within Baroque and Classical periods are explored in term 1 & 2. In term 3 the Romantic and 20th Century periods will be studied.
- Music technology: Students will use a range of music based software to compose new and interesting compositions. Students that have a keen interest and ability in music technology may decide to use this area of study during the course as an option in place of a composition on a traditional instrument. Students will need to see the music staff for more information on this before committing to the course.

Term 2 continues to focus on all 3 aspects. Students should complete one of their coursework compositions and give numerous performances to the group. They should also continue to take a Music CCA which helps to develop performance skills. Listening and appraising will continue with a focus on Baroque and Classical Periods.

Homework will be in the form of individual instrumental practice and composition tasks.

T3

Term 3 students will be continuing their aural work concentrating on rhythmic and melodic dictation, continuing composition work for their folios and making final preparations for the term three performances.

- Composing: Techniques for shaping and developing melodies in a variety of

modal/major/minor keys. Harmonization and accompaniment techniques. Compositional structures focusing upon binary and ternary form.

- Performing: Solo performing - students will be required to perform a short piece of their own choice on their first instrument before the end of term. Ensemble performing - all year 10 music students must attend weekly rehearsals with the School Orchestra and / or School Choir.
- Listening Term 3 – Baroque, Classical Periods & Romantic Periods will be revised and past exam papers will be introduced.

Art Faculty

Head of Faculty: Miss C Smithyman

T1

Year 10 Art students will start their IGCSE coursework this term. It is important that both students and parents realize that all of the work they produce in class and at home for their homework this term **will** be submitted as part of their coursework unit of work which is worth 50% of their final IGCSE grade.

This term's work will begin with drawing and technique investigations, followed by the identification of an appropriate subject matter choice and the selection of a range of artists' work which will influence the students' own work. Students will explore a range of techniques and processes and develop their analytical skills by looking at the work of others as well as their own. Overall their work should provide evidence of:

- An interest in and a critical understanding of environments and cultures.
- An ability to identify and solve problems in visual and tactile form.
- Confidence, enthusiasm and a sense of achievement in the practice of Art and Design.
- The technical competence and manipulative skills necessary to form, compose and communicate in two dimensions.
- An ability to record from direct observation and personal experience.
- Knowledge of a working vocabulary relevant to the subject.
- Experimentation and innovation through the inventive use of materials and techniques.
- The ability to organize and relate abstract ideas to practical outcomes.
- Intuitive and imaginative responses showing critical and analytical faculties.

T2

Year 10 students will continue to develop their skills in using different media, techniques and materials to a more advanced level and start to work in their areas of strength. They will also be progressing with their analytical skills and practical evaluations by synthesizing information gleaned from studying the work of others.

Students will be issued with the brief for their Year 10 Exam project. It is important that both students and parents realize that all of the work they produce in class and at home for their homework this term **will** be submitted as part of their coursework unit of work for their final IGCSE.

T3

This term the students will work towards their year 10 exam, the theme is of their choosing and will be carried through to Year 11 as their coursework project. Their Year 10 exam work should provide them with their supporting artist and subject matter research. This work will be set in the same way as the final examination for IGCSE, and the students will have a set number of weeks to produce all of their preparatory studies, before producing the final piece under timed test conditions during their Year 10 exams this term.

- It is useful exam experience and the resulting feedback based on examination marking criteria will provide students with a clear insight into how they can achieve the best possible grade next year.
- This work will also be submitted as part of their coursework component and therefore counts towards 50% of their final grade.

After the exams the students will then develop their ideas further, exploring a wider range of media and disciplines and develop their coursework project which needs to be completed in the first term of year 11. They will spend all of their lessons and homework time producing the investigation, research and development of ideas supporting work for this project.

Physical Education Faculty

Head of Faculty: Mr P Wellington

Head of Secondary PE: Mr M Springall

Physical Education:

T1

The faculty of Physical Education will be working in accordance to the National Curriculum. The underlining aims are to promote physical activity and healthy lifestyles and to develop positive attitudes. This term Year 10 will be working on a rotation of the following activities. Health Related Exercise, Life Saving, Basketball, Football, Softball, Rugby and Netball.

Students are expected to extend their individual skills as well as developing sound techniques, tactics and strategies throughout competitive situations. They may gain opportunities to adopt different roles, such as that of coach or official. Students are also expected to gain a greater understanding of how to improve their fitness and exercise safely.

T2

The faculty of Physical Education will be working in accordance to the National Curriculum. The underlining aims are to promote physical activity and healthy lifestyles and to develop positive attitudes.

This term Year 10 will be working on a rotation of the following activities. Health Related Exercise, Life Saving, Basketball, Football, Softball, Rugby and Netball.

Students are expected to extend their individual skills as well as developing sound techniques, tactics and strategies throughout competitive situations. They may gain opportunities to adopt different roles, such as that of coach or official. Students are also expected to gain a greater understanding of how to improve their fitness and exercise safely.

T3

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IGCSE Physical Education

T1

Practical:

Students will participate in Rounders and Athletics. They will be expected to learn and execute skills and techniques proficiently in these activities.

Theory:

In Term One students will examine reasons why people participate in physical activity and study exercise and training methods. They will be required to design an eight week Personal Exercise Programme for a component of fitness of their choice.

T2

In Term 2 students will study aerobic and anaerobic respiration, long and short term effects of exercise.

Practical:

Students will participate in Swimming and Personal Survival. They will be expected to learn and execute skills and techniques proficiently in these activities.

T3

Practical:

Students will participate in Badminton and Fitness Training. They will be expected to learn and execute skills and techniques proficiently in these activities.

Theory:

In Term 3 students will examine the human body and how it operates when taking part in physical activity.

Design Technology Faculty
Head of Faculty: Mr M Perry

Graphic Products Option

Pupils studying Graphics in Year 10 will be given design projects to complete during the year. These are very structured in nature and address real needs. The projects allow pupils to gain valuable insight into the design process, whilst strengthening drawing, presentation and model making skills.

Theory work will also take place during the year enabling pupils to increase their knowledge and understanding of tools, materials and processes as well as introducing new graphical techniques and concepts. This will provide them with a good grounding for their GCSE in Year 11.

Systems and Control Option

The first term of this option will introduce the students to electronics through theory, practical experiments and project work. This knowledge will then be used to design and make an electronic device that satisfies a given need. The theory work in Year 10 is very important as it forms the main body of knowledge that students are examined on at the end of Year 11.

Textiles Technology

The first part of this course will develop the skills and techniques necessary to bring design ideas to fruition. Students will then move on to more demanding design briefs that will develop their ability in the subject ready to tackle the final coursework piece in Year 11.

Business and Economics Faculty

Head of Faculty: Mrs C Hooper

Business Studies

T1

The following topics will be covered this term:

Introduction to Business Studies

- Scarcity and opportunity costs.
- Types of business activity.
- Types of economic system.
- Public and private sector organization.
- Different forms of business organization in terms of structure, ownership, finance and control.
- Stakeholders.

Organisational Structure

- Types of structure.
- Communication.

Production

- Ways of measuring the size of firms.
- Growth.

T2

Students will be studying the following topics and would be introduced with coursework at end of the term. There may be a little more but this is certainly the core.

- Market Research
- The Marketing Mix
- Product Life Cycle
- Price Elasticity of Demand
- Sources of Finance and Budgets

T3

Students will cover the following topics:

- Market Research.
- Market Segmentation.
- Marketing Mix – Product, Price, Place, Promotion.
- Finance and Operations management.

Students will also begin their coursework assignment. They will be required to write an introduction to their business plan and prepare a questionnaire. Students will then undertake their survey over the summer vacation.

Accounting

Term 1

The following topics will be covered this term:

- Understanding how the accounting equation works.
- The double entry system for assets, liabilities, stock, revenue and expenses.
- Preparing the trading, profit and loss accounts.
- Drawing up balance sheets.
- Examining the basic structure of accounting records.
- Understanding accounting concepts and conventions.
- The 2 column and the 3 column cash book.
- The petty cash book.

Term 2

Students will cover the following topics:

- Books of prime entry.
- Bad debt and provision for bad debt. Preparation of final accounts with these adjustments.
- Capital and revenue expenditure.
- Methods of calculating depreciation and recording it in accounts.
- Adjustments for accruals and prepayments and preparation of final accounts with these adjustments.
- Interpreting the bank statement, updating the cashbook and preparing bank reconciliation statements.

Term 3

Students will cover the following topics:

- Correction of errors: Types of error, suspense account, net profit adjustment and the correction of errors in final accounts.
- Stock valuation.
- Control accounts.

Economics

T1

The following topics will be covered this term:

- Examining basic economic problems, scarcity and choice, opportunity costs, and factors of production.
- Understanding the different types of economic systems; their advantages and disadvantages.
- The Price Mechanism – Supply and Demand.

T2

Students will be studying the following topics:

- The functions of central banks, stock exchanges, commercial banks.
- Money and banking: The functions and characteristics of money, the functions of commercial banks and the Bank of England.
- The factors affecting an individual's choice of occupation (wage factors and non-wage factors).
- The likely changes in earnings over time for an individual.
- The differences in earnings between different occupational groups (male/female; skilled/unskilled; private/public; agricultural/manufacturing/services).
- Trade unions and their role in an economy.
- The different motives for spending, saving and borrowing.
- How and why different income groups have different expenditure patterns (spending, saving, and borrowing).
- Labour: the demand and supply of labour, methods of paying wages and the wage differential.

T3

Students will cover the following topics:

- Types of business organization in the public and private sectors: sole proprietors, partnerships, private companies, public companies, multi-nationals, cooperatives, public corporations .The effects of changes in structure of business organisations
- The demand for factors of production
- The calculation of costs and revenues and analysis of changes, Profit maximization as a goal for firms, pricing and output policies in perfect competition and monopoly.
- The main reasons for different sizes of firms, Integration, economies and diseconomies of scale, Advantages and disadvantages of monopoly.

English as an Additional Language (EAL)

Head of Faculty: Mrs A Foss-Ellis

Head of Secondary EAL: Ms. Sheila Santharamohana

IGCSE ENGLISH AS A SECOND LANGUAGE YEAR 10

Students extend skills learnt in mainstream English and in EAL lessons in Key Stage 3 and begin preparation for the IGCSE English as a Second Language paper (Extended) in Year 11. Using the scheme of work from the Cambridge International Examinations Board, supplementary resources and authentic texts, students will further explore the genres and writing styles, in formal and informal writing, note-taking and summary writing. For reading, they will look at texts from the print media and practise skills required in academic reading. For listening, students will listen to talks, lectures, interviews and programmes from the media and develop their note-taking and comprehension abilities. Students will also make presentations; engage in debates and other speaking activities, which are essential practice for the speaking component of the paper. Students will be assessed formatively on **all** written assignments. Tracking tests to monitor progress will be held every two months on reading and writing skills. The end-of-year test in July will be on all four skills.