

YEAR 9

Mathematics Faculty

Head of Faculty: Mrs H Lopez

T1

This term students will be studying the following topics:-

- Working with numbers: This unit looks at the range of values within which a corrected number lies. It also covers reciprocals, interchanging fractions and decimals and also recurring decimals.
- Probability: This unit starts with calculating probabilities for single events with equally likely outcomes. It goes on to mutually exclusive and independent events, addition and multiplication of probabilities and also tree diagrams.
- Percentages: Starts with percentage increase and decrease with reference to VAT, tax and interest.
- Ratio & Proportion: Ratios and proportion are used to solve a variety of problems.
- Algebraic products & factors: This unit develops algebra of multiplying out brackets, forming and solving equations, factorizing quadratics.
- Inequalities and equations: Illustrate inequalities on a number line, solving linear inequalities. Extended students will also learn to represent inequalities involving x or y as a region of a plane. They will also learn to solve equations using trial and improvement methods.
- Loci: Determine the locus of an object moving according to a rule.
- Scatter graphs and travel graphs (Core class).
- Formulae and sequences. (Core class)

Topic tests, mental tests and progress test

T2

Maths (Core)

- Simultaneous equations: Form simultaneous equations, solve them by algebraic and graphical methods.
- Straight line graphs: Find the gradient and equation of a line in the form $y=mx+c$, intersecting lines and lines parallel to the axes.

- Areas: Metric and imperial units of area, areas of triangles, parallelograms and trapeziums.
- Circumference & Area of a Circle: Introducing π . Understand and use appropriate formulae for finding the circumference and areas of circles.
- Volumes: Find the volumes of cubes, cuboids, prisms including cylinder.
- Transformations: Reflection, rotation, translation and enlargement.
- Parallel lines

Maths (Extended)

Students will complete the following topics this term:

- Organising and summarizing data: the unit covers discrete and continuous data. Grouping continuous data, range, modal group, mean, and mode of a grouped frequency distribution are also covered.
- Formulas: Student will learn to construct a formula, substitute numbers and change the subject of a formula. They will also explore sequences by learning to find the n th term of a sequence.
- Simultaneous equations
- Quadratic equations: Form and solve quadratic equations by factorizing. Solution of other types of equation by trial and improvement.
- Areas & Volumes: Areas of trapezium and sector of a circle, are length volumes of a prism.
- Transformations: Reflection, rotation, enlargement and translation.

Topic tests, mental maths

T3

Students will be studying the following:

Maths (Core)

- Curved graphs: This unit involves constructing a table from a formula, drawing a curve through given points, getting information from curves.
- Pythagoras theorem: This unit involves applying Pythagoras theorem to right angled triangles to find the hypotenuse or one of the shorter sides. It also involves the use of the converse of Pythagoras theorem.
- Parallel lines: alternate and corresponding angles

- Polygons: sum of interior and exterior angles, tessellations.
- Scale drawings
- Continuous data
- Travel graphs

Maths (Extended)

- Trigonometry: This whole unit is extension work building from recognizing adjacent, opposite and hypotenuse and obtaining values of trigonometric functions to the formula of sine, cosine and tangent. The unit concludes with problems involving bearings, elevations and depression.
- Algebraic fractions: This unit covers simplification of algebraic fractions using the four operations. They also solve equations involving fractions.
- Graphs: Using graphs to solve quadratic equations, recognizing the shape of a curve from its equation, cubic and reciprocal graphs. Using graphs to model relationships.

Topic tests and final exam

English Faculty

Head of English: Ms A Owen

Year 9 students will study all of the following at different times throughout the year.

Creative Writing: Collaborative writing, learning about narrative, writing from students' experience of extracts from a range of literature.

Whole Class Text: Steinbeck and a selection of pre twentieth century authors will be studied in class. Students will be encouraged to respond creatively, empathetically and analytically to the characters, structure and themes of the text.

Knowledge About Language: Gaining an awareness of the power of the written word used persuasively and emotively, examining a variety of examples and producing their own pieces of persuasive writing.

Poetry: Studying a range of both contemporary and pre twentieth century poetry, students will analyse the writing techniques as well as be encouraged to experiment with more complex literary devices in their own writing.

Drama: Priestley, will be studied together with extracts from various contemporary and pre twentieth century extracts. Students will examine the potential of the stage to influence as well as study the style and language choices of dramatists.

Shakespeare: Much Ado About Nothing will be studied to give students an insight into Elizabethan theatre and society. Students will analyse the text looking at characters, themes and structure. They will study the play's historical context but also consider its contemporary relevance.

Non-Fiction/Media: Students will look at the film genre and consider its interpretation of texts; presentation of characters and use of stereotypes; setting; use of language; target audience and purpose.

Speaking and Listening : Performing for an Audience. In interpreting and presenting various texts, students will look at use of dialogue, movement and pace to convey action, character, tension, humour, clarity and volume of speech. Students will be encouraged to evaluate their own performances as well as those of other students.

Examination: Students will also be prepared for the end of academic year examination which will test reading and writing skills, as well as their ability to analyse a piece of text previously studied in class.

Assessment Methods: Formal assessments take the form of written responses which will be based on a text or be a piece of re creative writing. Some of these will be completed in class and some will be set as extended pieces done for homework. As speaking and listening is also such an important element of language acquisition and understanding, some speaking activities are formalised and assessed in class.

Science Faculty

Head of Faculty: Ms N Mason

Physics

Head of Physics: Mr J Grierson

Students will start the international GCSE in year 9 following the Cambridge specification.

T1

The following topics will be covered this term:-

Electricity

Waves

T2

Kinetic theory and density
Moments, equilibrium, stability

T3

Heat transfer
Experimental work
Advanced Space Research

Assessment

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

Chemistry

Head of Chemistry: Mr J Donaldson

Students will start the IGCSE course following the Cambridge specification.

T1

- Patterns of reactivity
- Exothermic & endothermic reactions

T2

The following topics will be covered this term:

- Rates of reaction
- Periodic table and atomic structure

T3

- Introduction to chemical bonding
- Science fair projects

Biology

Head of Biology: Miss J Kaur

Students will start the IGCSE course following the Cambridge specification.

T1

- Characteristics of living organisms
- Cells, tissues and organs
- Nutrients

T2

- Enzymes

T3

- Animal nutrition

Assessment

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

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 3. The students will practise the four language skills across the following topic areas, situations and communicative functions: getting to know France; talking about French towns; talking about activities you do and have done; talking about where you live; la Francophonie. They will practise the present, future and past tenses in the process.

T2

The students will complete units 3 and 4 in METRO 3. The students will practise the four language skills across the following topic areas, situations and communicative functions: keeping fit; making up an exercise programme; giving instructions; talking about what one used to do; how to give advice. They will practise all the tense covered in Term 1 and will learn the basic usage of the Imperative Mood.

T3

The students will complete most of unit 5 and part of Unit 6 in METRO 3. The students will practise the four language skills across the following topic areas, situations and communicative functions: thinking about what one is wearing; shopping for clothes; talking about fashion; what makes a friend; talking about music. They will practise all the tenses covered in Terms 1 and 2.

Spanish

Head of Spanish: Mr N McKenna

T1

Students will continue to study from Listos 2 textbook and will study:

Module 4: Tourism

- Asking what is of interest in a place
- Talking about where you go and what you do on holiday
- Saying where you went, what for and who with
- Talking about where other people went
- Saying what you did on holiday
- Saying what other people did

Module 5: Leisure time

- Describing an event in the present tense
- Describing an event in the past tense
- Describing what things were like

In both of the modules, the student will be introduced to the preterit and imperfect tenses. Extended writing and learning activities will be done to ensure retention of verb conjugations before formal assessment.

At the end of study for both of these modules there will be an assessment comprising of listening activities, spoken activities, reading activities and extended writing.

T2

Students will need to purchase the Listos 3 Rojo textbook to continue with the Spanish course.

Listos 3

Module 2: School

- Revising subject and the timetable
- Talking about your school
- Describing what you do every day
- Talking about free time activities
- Talking about holiday plans

The course will continue to examine students 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.

Presentation skills will be introduced and students will be required to talk at length about their school and its facilities.

Listos 3

Module 3: Holidays

- Revising restaurant language and the weather
- Asking for tourist information
- Making plans based on weather and local activities
- Booking a table and ordering your meal
- Reading about holidays

T3

Students will continue to work from the Listos 3 text book; covering the topic on Holidays.

Listos 3

Module 3: Holidays

- Revising restaurant language and the weather
- Asking for tourist information
- Making plans based on weather and local activities
- Booking a table and ordering your meal
- Reading about holidays

The students will now have encountered a wide range of tenses and vocabulary and will be formally assessed on the years work in an End of Year Assessment. The assessment will contain listening, speaking, reading and writing activities.

Throughout the term, a range of activities will be done in class and at home to prepare the students for the examinations.

Mandarin

Head of Mandarin: Mrs V Yap

T1

In term one, students will work on Chinese Made Easy Book 2, studying the following topic areas:

- Talking about summer holiday and what activities you do in this holiday.
- Talking about winter holiday and what activities you do in this holiday..
- Talking about what you like doing in your free time (hobbies)

Advanced students of Mandarin will work on Chinese Made Easy Book 2, studying the following topic areas:

- School campus and buildings.
- The locality of the buildings.
- Making telephone calls, taking and leaving messages.

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 2, studying the following topic areas:

- Talking about what you like doing in your free time (hobbies).
- Extracurricular activities.
- Sports and musical instruments
- Talking about your daily routine
- Talking about school timetables and subjects

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

Advanced (Fast track) students of Mandarin will work on Chinese Made Easy Book 3, studying the following topic areas:

- Body parts
- Describing yourself
- Describing how you feel when you are sick
- Food and health
- Shopping

The Fast track students will also do past exam papers to prepare for IGCSE exam next term.

T3

In term three, students will work on Chinese Made Easy Book 2, studying the following topic areas:

- Talking about school timetables and subjects
- Talking about what subjects you like and dislike and why.
- School campus and buildings.
- Making telephone calls, taking and leaving messages.

Advanced students of Mandarin will work on Chinese Made Easy Book 3, studying the following topic areas:

- Currency
- Talking about Chinese food and western food
- Food and health
- Chinese idioms and stories

The Fast track students will take the IGCSE exams in May/June.

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

Malay

Head of Malay: Ms P Muniandy

T1

In term one, students in Beginners Set will talk about illnesses and remedies, revise parts of the body, listen and respond to advertisements, talk about their own healthy lifestyle and compare aspects of their own lifestyle and that of other people. They will also talk about their free time, and learn how to use knowledge of language creatively to talk about current events. They will also carry out reading, listening and writing exercises related to the above topics.

The Fast track and Advanced IGCSE groups will continue with their IGCSE course. They will cover the year 11 SOW – they will talk about their past holidays, finding out how to get information at a tourist office, the different types of holidays, talking about places to stay and accommodation problems. In addition they will describe their house and the rooms in it, talk about music and films, television and advertising, going out to a restaurant, and making a complaint in a restaurant. Besides oral work, they will carry out listening, reading and writing exercises related to the topic. Students will also work on past year papers and prepare for their mock exams in January.

Students in the Intermediate class will cover the Year 10 Fast Track SOW mainly based on past papers and will carry out speaking, reading and writing exercises related to the examination syllabus. Students will also prepare for their mock exams 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 Speaking, Reading and Writing Skills.

T2

In Unit 15, students in the Beginners Set will talk and write about their holidays. They will also learn to ask about details of a previous holiday. Besides this, they will talk about the differences of places, people and cultures. They will compare modes of transport and accommodation, where they will state their own preference and find out preferences of others. In Unit 16, they will talk about their lifestyle and environment. Students will find out about eating habits, describe household objects, give personal opinions about the importance of the modern household, and learn about clothing. They will also talk about their hometown and express their views on an issue related to the environment. In addition they will also learn about sport.

The Fast Track and Advanced IGCSE groups will cover “ Journey and Transport” , about schedule of transportation, and an experience during a journey to a place. Students will also be attempting past year papers as well speaking practices in class. Students also will be preparing for their IGCSE Examination by start of Term 3.

Students in the Intermediate class will also be attempting past year papers as well speaking practices in class. Students also will be preparing for their IGCSE Examination by start of Term 3.

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

The topic covered is the Mass Media. Students in the Beginners Set will learn

- how to understand spoken or written narratives about television programmes, books and films
- how to express their views on the above
- how to describe people's character traits and their physical appearance

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.

Finally students will carry out revision for their end of year examination

Assessment: End of Year examination which covers Speaking, Reading and Writing skills.

Humanities Faculty

Head of Humanities: Ms K Haward

History

Head of History: Mr. D Kinvig

In Year 9 pupils study units of work relating to the 20th Century. Term One examines World War One; including its origins, the experiences of soldiers and civilians and its aftermath.

In Term 2 Year 9 we continue to study aspects of 20th Century World History. We move past the First World War to see how countries dealt with its aftermath and look at the political upheavals. We then look in-depth at different political systems. We will study Life In Nazi Germany and move into the Causes Of The Second World War before taking some case studies of events.

The programme for term 3 will concentrate on aspects of the twentieth century with an emphasis on World War II and its impact on international relations. Students will continue to develop their skills of analysis and source handling.

Students work is marked regularly according to the Humanities Faculty Markscheme. Periodically, students are assessed through extended essays which are undertaken in lessons and the focus of these is factual recall and source evaluation.

Geography
Head of Faculty / Geography: Miss K Haward

Year 9 begins with a study of the concept of Development. A range of countries at differing levels of development are examined, and reasons for the variations are elicited. Students investigate a number of themes related to development, including poverty, trade and aid. Our investigation of strategies to reduce poverty includes research into the Fair Trade charity as well as the United Nation's Millennium Development Goals.

In Term 2, students undertake a detailed investigation of Earthquakes and Volcanoes. The causes and effects of tectonic activities are analysed, and a range of strategies for coping with these hazards are considered. Students produce a detailed investigation of one particular volcanic eruption, using a range of research and enquiry skills. To conclude this topic, students undertake a decision-making exercise in which they must allocate a budget and justify their decisions in devising a management strategy for a town at risk from a volcanic eruption.

Students complete their Key Stage 3 programme with an investigation of Incredible India. This looks at India's growth on the global stage in terms of economic wealth, population and the environmental impacts of this growth.

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.

Information and Communications Technology Faculty
Head of Faculty: Mr. M Smith

Introduction to the IGCSE ICT course

Pupils start to study for the CIE IGCSE ICT course at the beginning of Year 9. They continue into Year 10 and finish in Year 11.

Practical work makes up 60% and software areas to be explored include Communications, Document Production, Data Manipulation, Data Analysis, Website Authoring and Presentation Authoring using the Microsoft Office package and Adobe Creative Suite.

Theory work makes up 40% of the total IGCSE grade. Topics covered are The Components of a Computer System, Input and output devices, Storage Devices and Media, Data Types, Computer Networks, The Effects of using Information Technology, The ways in which IT is used and Systems Analysis and Design.

Students embark on the IGCSE ICT programme by studying the use and creation of web pages and sites. They will learn to evaluate the attributes of web sites and they will create their own web sites, adhering to the good practice previously studied. They will then study a module covering presentation software which will build on previous knowledge and enable the pupils to create well structured presentations that make good use of the software features available.

T2

Pupils will continue to build a range of advanced practical skills, starting with the practical uses of communications software and the Internet before delving into some advanced features of word processing. This is followed by completing skills building exercises in spreadsheets. Each topic covers a wide range of skills which pupils must practise throughout their IGCSE course in order to achieve to the top of their ability in the final IGCSE ICT practical examinations.

Pupils will be given advice regarding the IGCSE Computer Studies course which can be taken as an option.

T3

The final term will commence with the study of databases. Pupils will learn about the benefits of computerized databases, sorting and searching for data. They will also learn how to use databases for summarizing information, performing calculations, and producing suitable output formats.

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 come from the final exam practice exercise carried out in class. Year 9 pupils will sit a practical exam in the summer term which will provide their final grade for the year.

Drama Faculty

Head of Faculty: Miss J Lee

Assessment

All KS3 Drama work is assessed through our Drama levels (displayed in the Drama corridor and available on Moodle for student self assessment). These levels assess Creating, Performing and Responding:

- Creating (how confidently and creatively students work with their peers to create drama)
- Performing (how well they perform pieces that have been rehearsed)
- Responding (how well students comment upon and analyse the performances they see)

T1

The aim of this term's work is to produce theatre in a physical and eclectic style. We experiment with various different techniques such as Farce Theatre that explores the comic potential of entrances and exits.

In the second half of term we look at sections of 'Romeo & Juliet' and explore Shakespearian theatre in its historical context.

T2

To give students a taste of what IGCSE Drama is potentially like, we have brought a former Year 10 scheme of work to Year 9. 'Let Him Have It' is based on the true events of Derek Bentley, whose hanging in the 1960s was fundamental in bringing about the end of capital punishment in the UK. Students will use this stimulus as a basis for practical workshops and group devising. The skills of stylized physical action are specifically developed.

T3

By this term students will have decided whether or not to take Drama at IGCSE level. We concentrate on consolidating the skills and techniques learnt over the past three years by giving students much more freedom to devise, create and produce their own polished performance pieces as a means of showcasing the skills acquired. We work on the genre of Soap Opera exploring melodramatic styles of theatre and comic timing.

Music Faculty

Head of Faculty: Mr J Long

T1

Throughout year 9 pupils will build upon, strengthen and increase their musical skills, knowledge and understanding through the activities of performing, composing, listening and appraising.

The topics studied will include

- Western Music Tradition
- Indian Music
- Minimalism
- Texture and Timbre
- Structure
- Song Writing
- Theme & Variations

Skills to be developed will include

- Guitar chord work
- Keyboard Skills
- Tuned and untuned percussion work
- Ensemble skills

Composition skills
Computer music programme skills

Art Faculty

Head of Faculty: Miss C Smithyman

T1

The year 9 students will be working on the theme of REPRESENTATION this year. The projects they work on will be an introduction to the working processes followed at IGCSE level. As the different projects progress, students will experiment with a range of materials and processes. They will be encouraged to explore a full range of design ideas before refining their ideas in light of careful evaluation and modification. They will then produce a final piece that complements the skills learnt in the first part of the development. Students will be introduced to new disciplines, some as major projects and some as minor projects, for each they will be looking at the work of other artists and cultures which will enhance their analytical skills.

T2

The Year 9 students will continue to work on a final piece from their thematic project. They will then develop their skills further by investigating a different approach to the theme, inspired by the work of different artists. This project will be an introduction to the working process followed at IGCSE level. As the project progresses students will experiment with a range of materials and processes. The students will be encouraged to explore a full range of designs before refining their ideas after careful evaluation and modification. They will then produce a final piece that complements the skills learnt throughout the year.

T3

This term the students will develop skills in using a range of different media and this project enables students to experiment in a range of different techniques. They will build on the work from term two and will be expected to develop an idea as they would during an IGCSE coursework unit and produce a final outcome either in 2D or 3D. At this point the developmental process of an idea is as important as the production of the final piece. The students will then utilize their analytical and evaluative skills to express their understanding of their own work and that of their peers.

Physical Education Faculty

Head of Faculty: Mr. P Wellington

Head of Secondary PE: Mr. M Springall

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.

Year 9 will be working on a rotation of the following activities:

- Swimming
- Rugby (Boys)
- Football (Girls)
- Athletics
- Softball
- Basketball
- Volleyball

Students will cover two of these activities this term and are expected to extend their individual skills as well as developing sound techniques, tactics and strategies throughout competitive situations.

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.

Students will be working on a rotation of the following activities: Football (Girls), Rugby (Boys), Badminton, Softball, Volleyball, Athletics and Basketball.

Students will cover two of these activities and will be expected to extend their individual skills as well as developing sound techniques, tactics and strategies throughout competitive situations.

T3

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.

Students will be working on a rotation of the following activities: Football (Girls), Rugby (Boys), Badminton, Softball, Volleyball, Athletics and Basketball.

Students will cover two of these activities and will be expected to extend their individual skills as well as developing sound techniques, tactics and strategies throughout competitive situations.

Design Technology Faculty
Head of Faculty: Mr M Perry

1. Systems and Control

Students will build on the theory and practice of basic electronics learnt in year 8 and will then use these skills to design and make a functional automatic light operated circuit that is used as a "night light". This course also makes use of simulation and production software as part of the cycle of designing and making circuits.

2. Graphic Products

Using various CAD packages students will be designing a shop façade and associated business cards. The final outcome will be in the form of a modelled shop frontage and CAD images. Software such as Publisher, 2-D design and Illustrator may be used during this unit.

3. Textile Technology

This unit develops the student's knowledge of designing and making with textiles. The project is based on accessories made from re-cycled denim using a technique called 'distressing denim'. Alongside this various sewing and dyeing techniques will be experienced.

English as an Additional Language (EAL)
Head of Faculty: Mrs A Foss-Ellis
Head of Secondary EAL: Ms. Sheila Santharamohana

FASTRACK

Students attend EAL Fastrack classes in place of both of their Modern Languages and English classes. This term the students will focus on reading, analyzing and producing real life texts which will require them to understand a range of genres and to be aware of current issues in the news. They will be studying these texts and units of work: Whale Rider, Romeo and Juliet, Under-ground to Canada, Travel writing and a Language Unit. Besides that, they will be studying how writers use language for a purpose, which will include writing to inform, explain or persuade. Students will also be conferencing with their teachers to recognize and improve on areas of concern. This will assist them with target setting and skills development. Individual attention is given to target weaknesses and help develop strategies for continuous self-improvement. The syllabus will closely parallel or mirror language across the curriculum. Students will begin term 3 by preparing for the up and coming examinations. They will review genres, grammatical features and writing styles. Students will also be tested every half term on three writing assignments

while at the end of each term an additional summative assessment will be administered to review their performance.

WITHDRAWAL

Students attend EAL Withdrawal classes in the place of one of their Modern Languages. Students in the program will study four units of work; the novel *Underground to Canada*, a Multicultural unit, exam preparation and *Mysteries*. In the novel study, students will be encouraged to consider different opinions and perspectives, while the Multicultural unit centers around persuasive and argumentative writing. They focus on strengthening their skills in speaking, listening, reading and writing English language. In particular emphasis will be on listening and reading comprehension, grammatical structures, pronunciation, vocabulary building and writing skills. Students will also be given assistance in preparation for their examinations, which will be taken in term three. It is also recommended that all students undertake a program of reading at home to assist with reading comprehension and understanding. Formative assessments in the form of written assignments will be ongoing, with one progress check towards the end of half term. Another summative assessment will take place at the end of every term.