

Autumn Term Overview

Tutor Group: 10K

Subject and Teacher	Subject Overview	How you can help at home	Subject specific key words to practise with your child
English Miss King & Mrs Kelley	We will be preparing for GCSE English Language (Eduqas) Component 1 Reading and Analysing 20th Century Prose. We will be reading and analysing the novel 'The Strange Case of Dr Jekyll and Mr Hyde' as well as extracts from 20th century literature as part of our preparation for this part of the exam. We will be exploring implicit and explicit meaning, selecting apt evidence and information. We will learn how to comment on, analyse and explain how writers use language to create certain effects, e.g. tension, and we will use appropriate subject terminology as appropriate. We will also learn to make evaluate judgements on texts, that is judge or assess key characters and ideas.	Complete weekly homework tasks. Read a range of different types of fiction and non-fiction texts to develop vocabulary, understanding and gain inspiration from other works about things you may wish to include in your own writing. BBC Bitesize contains useful materials that will support your learning. GCSE English Language - Eduqas - BBC Bitesize These revision guides are useful: New GCSE English Language WJEC Eduqas Revision Guide (with Online Edition and Knowledge Organisers) CGP Books New GCSE English Language WJEC Eduqas Exam Practice Workbook (includes answers) CGP Books	Character Perspective Structure Evidence Inference Deduction Tracking Supporting Evaluation Impressions

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English Miss Barrow	This year in English pupils will be working towards their Entry Level qualification, Step Up to English. This term we will be starting to develop the skills needed for the qualification including language analysis and exploring a range of texts linked to the theme of Survival. We will be gaining confidence in using ambitious vocabulary in our writing as well as consolidating knowledge of spelling, punctuation and grammar. Texts we will be studying will include articles and reports as well as extracts from adventure novels and Lord of the Flies. These will be used to develop their retrieval and inference skills to understand the language used.	Please support pupils to complete their weekly homework tasks and encourage them to read a range of texts, including both fiction and non-fiction texts, regularly. Please talk to pupils about the texts they are studying in class and their thoughts and opinions on them. Encourage pupils to write short stories about their interests including ambitious vocabulary and different punctuation	Survival Adventure Responsibility Retrieval Inference Analysis Fiction Non-fiction
Maths Mrs Sipek	Foundation GCSE Number Pupils will recap fundamental number skills to ensure a strong foundation in understanding number and place value, calculating with the for operations, negative numbers, factors and prime numbers. Algebra Pupils will cover order of operations (BIDMAS), function machines and simplifying expressions. Graphs Revise work on coordinates and work with 4 quadrants. Consolidate understanding of pictograms and bar charts.	Please support pupils with weekly homework which helps to secure their understanding of current work. Corbett Maths : www.corbettmaths.com can be used to find supporting videos and practise questions. Additional support can also be found in https://www.bbc.co.uk/bitesize	Place value Thousand million ascending descending BIDMAS Term Input Output Term Expression

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Maths Mrs Diapouli	Number Pupils will continue to build on their number skills to establish a strong foundation. We will work on factors and multiples, prime factorisation, calculations with directed numbers on all four operations, powers, roots and calculations with decimals on all four operations. Algebra Pupils will work on building the knowledge on how to use the correct algebra notation, then will learn how to manipulate algebraic expressions by simplifying and factorising. Finally, we will move onto substitution and expanding brackets. Graphs, Tables and Charts Pupils will work on how to interpret and construct frequency polygons, bar charts and pie charts.	Please encourage and support weekly homework tasks, remind them to show their working as we have been doing in class, to read the questions carefully and attempt every question. Pupils can practice on www.corbettmaths.com Use technology and interactive resources, practice with previous Edexcel past papers at home.	Integer Operation Expression Identity Formula, Substitute Term Index Expand Data Discrete Continuous Qualitative Quantitative Sample Population Frequency

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Maths Mr Goodchild	Number Pupils will continue to build on their number skills to establish a strong foundation. We will work on factors and multiples, prime factorisation, calculations with directed numbers on all four operations, powers, roots and calculations with decimals on all four operations. We will progress onto rounding to decimal places and significant figures and use this to work out error intervals and complete estimation calculations along with understanding and using index laws and notation to solve problems Algebra Pupils will work on building the knowledge on how to use the correct algebra notation, then will learn how to manipulate algebraic expressions by simplifying and factorising. We will then move onto substitution and expanding brackets along with factorising quadratic equations and learning how to form equations to describe sequences. Averages and Range We will learn how to work out the mean, mode and median along with the range and construct and interpret stem and leaf diagrams and grouped frequency tables Graphs, Tables and Charts Pupils will work on how to interpret and construct frequency polygons, bar charts, pie charts, histograms and line graphs. Fractions Ratio and Percentages	Please encourage and support weekly homework tasks, remind them to show their working as we have been doing in class, to read the questions carefully and attempt every question. Pupils can practice on www.corbettmaths.com Use technology and interactive resources, practice with previous Edexcel past papers at home.	Substitute Term Index Expand Discrete Continuous Mean Mode Median Sample Population Frequency
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	Pupils will work on calculating exactly with fractions, work with fractions in ratio and percentage problems, and calculate percentage increase, decrease along with working out the original value. Angles and Trigonometry Pupils will use the rules of polygons, angles and parallel lines to solve problems and then move onto trigonometric functions.		
Mrs Webb Entry Level Maths	This term pupil's will be working on their properties of number coursework unit. This aims to develop the pupil's understanding and use of number. Pupils will learn about place value within whole numbers and will undertake calculations using mental arithmetic and using a calculator. Pupils will understand the terms odd and even, and rounding will be introduced. Later in the term pupil's will be working on their statistics coursework unit. This aims to develop the pupil's understanding and interpretation of simple statistical diagrams. Pupils will learn how to conduct simple surveys and then analyse and communicate their results. They will also learn to sort information according to set criteria.	Look at numbers in the environment, on road signs and buses. Get pupils to read them. Ask them which digit is the ones, and which is the tens digit. Are they odd or even? Discuss the purpose of the number e.g.- a distance on a road sign, measurement in a recipe or using a timer when cooking.	Greater than Less than Odd Even Equal Order Smallest Largest Tens Ones

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Biology Ms Perry	In term 1, pupils will be studying the first biology topic, 'Cell Biology' where they will learn about sub-cellular structures, how substances move into and out of cells along with specialised cells and how they are adapted to perform their function. They will also learn how to use a microscope to observe cells and learn about mitosis, the process by which cells reproduce. Pupils will then move on to study the second biology topic, 'Organisation' where they will learn about cells, organs and systems and focus on the digestive, respiratory and circulatory systems in humans. They will also learn about the organs and systems in plants along with non-communicable diseases and the various risk factors associated with these and what can be done to prevent or cure these conditions.	Pupils will be given an AQA Biology revision guide and a white AQA Biology workbook. Homework will be to complete pages of the workbook which relate to the topics covered in lessons. The workbook contains questions for pupils to answer and pupils can write their answers directly into the workbook. The revision guide pages link directly to the workbook pages (they have the same page titles) and have the relevant information needed to support pupils answering the questions in the workbooks. Please encourage and support the completion of these weekly homework tasks. You can also use BBC bitesize to support by going to the GCSE AQA Biology section where all the topics correlate directly to those we are studying.	Adaptation Mitosis Mitochondria Osmosis Diffusion Tissue Non-communicable Cardiovascular Enzymes Transpiration

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Science Mrs Weston	This term the pupils will be learning about cells whilst working towards the Entry Level Science Award. This is the first of three compulsory units and covers areas of Biology including human cells and how cells can specialise for a particular function, how cells are organised to form the human body. We will then move on to learn about the circulatory system including blood and the heart followed by the digestive system. Before turning our attention to respiration and ending on healthy lifestyles. In the second half of the term pupils will work towards their Level 1 Science qualification. This will involve lots of practical work testing the properties of different food and cleaning products.	Pupils can use the following links to access BBC bitesize to help them overlearn the different topics studied in lessons Animal cells Circulatory system Digestive system Respiration Please also try to encourage them to see the importance of science in everyday life by discussing how science is linked to things they may see on the television or in the world around them.	Organ Circulation Respiration Enzyme Lifestyle Properties Observation Accurate Procedure Outcome

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Combined Science Mr Goodchild	In term 1 pupils will be completing the first AQA GCSE topic on Energy. Pupils will learn how energy can be stored and transferred and use equations to calculate kinetic, elastic, thermal and gravitational energy. They will learn how thermal energy can be transferred by conduction, convection and radiation and then apply these ideas to understand the measures that can be used to improve efficiency. This will lead into researching the various energy resources we use to obtain the energy we need; looking at the advantages and disadvantages of each. In term 2 we will move onto a chemistry topic, 'Atoms, Elements, Compounds and mixtures' where we will learn about the periodic table of elements and the properties of groups 1,7 and 0. We will learn how to write word and symbol equations for chemical reactions along with how to balance these equations. Pupils will learn how to separate mixtures using chromatography, filtration, evaporation and distillation.	Pupils will be given an AQA Combined Science revision guide and a white AQA Combined Science workbook. Homework will be to complete pages of the workbook which relate to the topics covered in lessons. The workbook contains questions for pupils to answer and pupils can write their answers directly into the workbook. The revision guide pages link directly to the workbook pages (they have the same page titles) and have the relevant information needed to support pupils answering the questions in the workbooks. Please encourage and support the completion of these weekly homework tasks. You can also use BBC bitesize to support by going to the GCSE AQA Combined Science section where all the topics correlate directly to those we are studying.	Gravitational Kinetic Efficiency Conservation Renewable Compound Isotope Properties Chromatography Distillation

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Combined Science Ms Perry	In term 1, pupils will be studying the first biology topic, 'Cell Biology' where they will learn about sub-cellular structures, how substances move into and out of cells along with specialised cells and how they are adapted to perform their function. They will also learn how to use a microscope to observe cells and learn about mitosis, the process by which cells reproduce. Pupils will then move on to study the second biology topic, 'Organisation' where they will learn about cells, organs and systems and focus on the digestive, respiratory and circulatory systems in humans. They will also learn about the organs and systems in plants along with non-communicable diseases and the various risk factors associated with these and what can be done to prevent or cure these conditions.	Pupils will be given an AQA Combined Science revision guide and a white AQA Combined Science workbook. Homework will be to complete pages of the workbook which relate to the topics covered in lessons. The workbook contains questions for pupils to answer and pupils can write their answers directly into the workbook. The revision guide pages link directly to the workbook pages (they have the same page titles) and have the relevant information needed to support pupils answering the questions in the workbooks. Please encourage and support the completion of these weekly homework tasks. You can also use BBC bitesize to support by going to the GCSE AQA Combined Science section where all the topics correlate directly to those we are studying.	Adaptation Mitosis Mitochondria Osmosis Diffusion Tissue Non-communicable Cardiovascular Enzymes Transpiration

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PSD Miss King	Pupils will start their exploration of how to prepare for the challenges and experiences in the 'real world'. The first topic is Healthy Living. Pupils will link their personal skills and qualities to those needed for living a happy and fulfilled life where they are empowered to be in their most healthy state through the choices around diet and lifestyle. They will also reflect on their current choices consider ways to modify their choices. They will undertake research around personal choices and consider how they can be empowered to have agency over their own lives.	Please talk with your child about how a healthy diet and work/life balance is achieved by you; reflect on how they may be empowered to develop a growing independence around healthy choices in regard to sleep, diet, exercise, hygiene routines and leisure activities so that they develop skills for their own regulation of a healthy lifestyle. Help them to gain greater confidence around navigating food packaging so that they may make informed and good choices. Reading articles on The Day newspaper – which may be accessed via the RM Unify dashboard – around social media, screens, diet and wellbeing, may also prove useful.	Processed Work/life balance Sleep hygiene Active listening Confident speaking Discourse Empowerment

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R&W Miss Jackson	During KS4 we will be completing work towards accredited units of the AQA award scheme. This will begin with a focused study on Crime and Punishment during the autumn term. We will investigate issues around crime and punishment, relating to morality and consider different reasons why crimes are committed. We will go on to explore the four aims of punishment and explore the meaning of, and debate around capital and corporal punishment. Pupils will build on this knowledge base by evaluating the impact of religious views on reasons for crime and the purposes of punishment. Towards the end of the unit pupils will investigate aspects of living conditions in a British prison and demonstrate their personal views around capital punishment. R&W lessons will always provide an opportunity to consider a range of religious and worldviews and in this unit that will include an opportunity to reflect on the diversity of British views and faiths and their impact on British values.	You can help your child at home by asking about the scenarios and beliefs they are learning about in class and by encouraging them to value the diversity of belief in our society. It can be helpful to follow current affairs around crime rates and the justice system and discuss this with your child.	Crime Punishment Excitement Convenience Psychological stress Intoxication Protection Retribution Reform Capital Punishment

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PE Mr. Altman, Mr. Smith, Mr Hunt & Mr. Stinton	This term, pupils will focus on two sports. The trampolining topic pupils will learn new skills like tuck jump, straddle, pike, seat drop and half twist. Some pupils will learn advanced skills like front drop, back drop and swivel hips. Pupils will then implement these skills into a 6 to 10 jump routine whilst, importantly, remaining under control and limiting the travelling they display. The other topic will be football; pupils will develop and build on a range of fundamental skills essential to the sport. These include passing, shooting, tackling, ball control and dribbling. In addition to skill development, pupils will gain an understanding of the various playing positions, exploring the responsibilities and tactical roles associated with each. This comprehensive approach will support their overall gameplay and deepen their knowledge of football as a team sport.	For Trampolining it would be helpful if you could encourage your child to look at the core skills used in the activity as well as videos on how to put together a simple sequence effectively. For football, it would be helpful if you could encourage your child to learn the different positions and formations.	Pike Travelling Straddle Focus Aesthetically pleasing Body tension

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Food Studies Mrs Goss	This term, pupils are exploring the theme <i>Britain's Finest</i>, learning how to prepare a range of traditional British savoury and sweet dishes. Through recipes such as Cornish pasties, apple and blackberry pie, and sticky toffee pudding, pupils are developing essential skills in pastry making, ingredient preparation, and food hygiene. These lessons also help pupils understand how food reflects Britain's regional heritage, while practising techniques that build their confidence and result in a sense of pride. The importance of macro- and micronutrients are introduced and embedded within lessons. In the second half of the term, pupils will shift their focus to <i>European Christmas baking</i>, creating festive bakes including cinnamon rolls, gingerbread millionaire shortbread, and chocolate Yule logs. These practical's allow pupils to develop precision and creativity, working with techniques like rolling dough, layering fillings, and decorating. Pupils will also work collaboratively, simulating the real-world catering industry by baking high-quality products for our Macmillan Coffee Morning and Christmas Cheer.	It would be fantastic if pupils could be in the kitchen at home once a week to support their course of Home Cooking Skills. From preparing, cooking, serving and cleaning in the kitchen, or, supporting with purchasing food, writing meal plans for the week and understanding how online shopping works (even if this is not used). Photographs will enable further evidence that cooking is happening at home and pupils are sharing their knowledge and skills. Please send any photographs via Weduc.	Buttercream Crimping Decoration Filling Folding Lattice Macro & micronutrients Pastry Piping Presentation Puff pastry Shaping Shortcrust
IT Mr Naylor	INGOTS - IT User Skills This term the pupils will start working toward their IT qualification. They will be focussing on creating a range of Word documents. These will include creating a letter of complaint and a menu for a café/restaurant, as well as using their skills to create a newsletter. Pupils will learn how to use the align, table and style tools amongst other useful formatting tools.	Encourage your child to write a letter to a family member using a formal structure on an electronic device.	Style Word Processor Align Table Format Font Newsletter

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Computer Science Mr Naylor	OCR GCSE Computer Science J277 We will be learning about the Storage and Data as well as the System Architecture, learning about how the CPU works, including the flow of data. This will include the von Neuman Architecture that is still used by all modern computers. We will gain an understanding of the clock speed of a CPU as well as the cache and learn how the number of cores can affect the processing time of a CPU. We will then move on to investigating embedded systems and understand how household devices are reliant on using an embedded system. We will also start our journey in how to code using Python, this will start from the very beginning so that all pupils will be able to make significant progress within this area We will also start our journey in how to code using Python, this will start from the very beginning so that all pupils will be able to make significant progress within this area.	As we use a flip learning technique, please encourage your child to watch the set video and to Take notes using the Cornell Note Template within Teams. Watching the video with your child will help you understand what they are currently studying.	CPU Registers Architecture Python Subroutine Algorithm Data RAM Bus Address

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Land Based Science Miss Durrant & Mrs Weston	With Miss Durrant this term pupil's will be completing one of the compulsory modules from the Land Based Studies specification. They will be exploring the vast range of careers within the land based sector and the skills, behaviours needed to succeed within these careers. Pupil's will also be identifying their own skills, strengths and acknowledge any areas they need to develop. Alongside these academic elements pupils will also be starting to develop some of the practical skills required for later units. This will include planting bulbs ready for spring colour and for sale at the Christmas Fayre! With Mrs Weston the pupils will be learning about the five basic animal welfare needs as well as the health and safety aspects of caring for animals. This will mainly focus on the care of our Bearded Dragon and Cameroon Rosy Leg Millipedes.	Parents & carers can support their children by starting to put together some old clothes or an overall that can be used for the practical elements. It would also be useful to have discussions around progression routes and goals as well as the behaviours and skills needed to succeed in education and employment. Eg reliability, timekeeping and communication and team working. It would also be useful to have discussions around the responsibilities of pet ownership and if there are pets in the house, giving the pupils some ownership of their care would be fantastic.	Employability Progression Skills Goals Achievable Animal welfare act Suitable diet Suitable environment Companionship
Sports Leadership Mr Altman	In term 1, pupils will develop 4 skills which are important to being a sports leader. These are teamwork, self-belief, self-management and problem solving. They will develop these in a range of practical games and theory tasks. In term 2 pupils will develop their communication skills in a range of leadership games. They will understand the difference between verbal and non-verbal communication and then develop this skill through practical activities. Pupils will then learn different leadership styles and inspirational leaders around the world. They will look at behaviours which make them successful.	Discuss different famous leaders (Jürgen Klopp, Sarina Wiegman) and how they have influenced the sporting world. Discuss current football managers and rugby directors and what behaviours they show. Are they always positive?	Communication Teamwork Self-Belief Self-Management Problem Solving Adaptation Positivity

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History Mrs Mitchell-Dyer	During the course of this term pupils will start the GCSE or Entry Level History qualification by learning about the nature and extent of crime, the enforcement of law and order, and the punishment of offenders. They will explore different periods of history, looking first at the early medieval period (c1250-1500) before moving onto early modern Britain (c1500 –1750), exploring the changing nature of crime including moral crimes and vagrancy. We will finish with work on crime in industrial Britain (c1750-c1900) looking at changes like the introduction of the police force.	You can support your child by talking and discussing about any family history you may know and telling stories about the past. There are great local history sites in this area, which would be good to visit, allowing your child to see history in real life. You can also help them to complete their homework as independently as possible and help them to understand key terminology.	Crime Punishment Law Enforcement Medieval Villein Clergy Court
Art & Design Mrs Berry	Pupils will start work on their first coursework project in September. AQA Coursework is worth 60% of their GCSE and is divided up into two projects. Pupils work in A3 sketchbooks into which they add all their research, ideas, contextual links, and related thoughts. This becomes an important journal that documents their journey and culminates in the creation of their final piece. They may work in a wide range of disciplines from painting, printmaking, textiles and fashion to sculpture and 3-D design. The focus this term will be on developing their ideas. This is assessment objective 1 of 4 (develop) and forms an important part of the course. We won't start thinking about the final piece for this project until after Christmas so in the meantime the development of their sketchbook is key.	Please support your child at home to complete homework when set. This will mostly involve ideas/research/website investigation and annotations for their sketchbooks.	<u>Assessment Objectives.</u> Ao1 – Develop Ao2 – Record Ao3 – Refine A04 – Present