

Subject						
	8 <sup>th</sup> June	15 <sup>th</sup> June	22 <sup>nd</sup> June	29 <sup>th</sup> June	6th July	13 <sup>th</sup> July
Maths	Mr Horne &	Mr Horne &	Mr Horne &	Mr Horne &	Mr Horne &	Mr Horne &
	Mr Jackson	Mr Jackson	Mr Jackson	Mr Jackson	Mr Jackson	Mr Jackson
	<u>Laws of Indices</u>	<u>Surds</u>	Upper & Lower Bounds	<u>Inequalities</u>	Factorising Quadratics	Simultaneous Equations
	In this learning loop you will	In this learning loop, you will	In this learning loop you will be finding	In this learning loop you will	In this learning loop you will	In this learning loop you will
	review the laws of indices. You	recap surds and know how to	upper and lower bounds for rounded	identify values defined by an	recap factorising quadratics	solve simultaneous equations
	will be able to simplify	multiply and divide with surds.	numbers. You will calculate with	inequality and represent	into single brackets, in the	where neither equation
	negative and fractional indices	This lesson will also be a	upper and lower bounds, including	inequalities on a number line.	form	needs changing and where
	Standard Form	review of the methods used to	more complex worded questions	You will represent multiple	ax² + bx + c where 'a' is equal	you will eliminate a variable
	In this learning loop you will	simplify surds	Recurring Fractions	inequalities on a number line	to 1 and greater than 1	by either adding or
	recap multiplying and dividing	Estimating	In this learning loop you will convert	to determine overlapping	Solving Quadratics	subtracting one variable from
	in standard form	In this learning loop you will	recurring decimals to fractions where	regions.	In this learning loop you will	another
	You will also add and subtract	review rounding to significant	every digit in the decimal is recurring.	Inequalities on a Graph	solve quadratic equations by	Simultaneous Equations
	in standard form ensuring that	figures. This then leads on to	You will also convert recurring	In this learning loop you will	factorising into single or	In this learning loop you will
	all calculations/answers are in standard form	using significant figures to	decimals to fractions where only some	recap how to draw equations	double brackets	solve simultaneous equations
	standard form	estimate complex calculations.	of the decimals are recurring	of straight lines. You will identify regions enclosed by	Mara Von dou Lith	where both equations need
	Mrs Van der Lith,	Estimation is an important	Mrs Van der Lith,	two or more inequalities	Mrs Van der Lith, Mrs Ferns & Mr Lee	changing in order to have a matching variable
	Mrs Ferns & Mr Lee	skill.	Mrs Ferns & Mr Lee	two of more mequanties	Factorising Expressions	matering variable
	Laws of Indices	SKIII.	Surds	Mrs Van der Lith,	In this learning loop you will	Mrs Van der Lith,
	In this learning loop you will	Mrs Van der Lith.	In this learning loop, you will recap	Mrs Ferns & Mr Lee	recap factorising linear	Mrs Ferns & Mr Lee
	recap the laws of indices.	Mrs Ferns & Mr Lee	surds. You will multiply and divide	Inequalities	expressions with one factor.	Simultaneous Equations
	You will understand the laws	Rounding 1	single surds and surds that have been	In this learning loop you will	You will then factorise linear	In this learning loop
	regarding multiplying, dividing	In this learning loop you will	multiplied by a whole number	identify integer values defined	expressions with more than	You will solve simultaneous
	and indices with brackets. You	recap rounding to whole	Calculating with Surds	by an inequality and	one factor	equations where neither
	will use a combination of	numbers, 10, 100 and 100a	In this learning loop you will simplify	represent inequalities on a	Factorising Quadratics	equation need changing. You
	these rules to work backwards	and a given number of	surds and simplify surds in order to	number line.	In this learning loop you will	will eliminate a variable by
	to find missing powers	decimal places	add and subtract surds	Solving Inequalities	recap factorising quadratics	either adding the two
	Standard Form	You will use this skill in many		In this learning loop you will	into single brackets, in the	equations together or
	In this learning loop you will	calculations in Mathematics	Mrs Wynn	solve inequalities with	form	subtracting one from the
	recap how to convert small	Rounding 2	Square & Cube Numbers	unknowns on one side. You	ax² + bx + c where 'a' is equal	other
	and large numbers to and	In this learning loop you will	In this learning loop you will recap on	will solve inequalities with	to 1 with both negative and	Rearranging formulae
	from standard form	round to a given number of	square and cube numbers.	unknowns on both sides using	positive terms	In this learning loop
		significant figures.	You will recognise and identify square	inverse operations and		You will change the subject
	Mrs Wynn	Rounding to significant figures	and cube numbers. You will calculate	represent these inequalities	Mrs Wynn	using inverse operations.
	Factors & Multiples	is an important skill needed	with square and cube numbers	on a number line	One step Equations	You will change the subject of
	In this learning loop you will	when estimating or checking	Laws of Indices		In this learning loop you will	simple formulae using one
	recap and identify factors and	answers.	In this learning loop you will recap	Mrs Wynn	solve one-step equations	and two steps
	multiples of numbers.		how to write numbers in index form.	Collecting 'like' terms	using inverse operations.	
	Knowing your times tables is	Mrs Wynn	You will know how to evaluate	In this learning loop you will	Two Step Equations	Mrs Wynn
	essential to be able to	Rounding 1	numbers to the power of 0 and 1	recap how to simplify basic	In this learning loop you will	Sequences 1
					solve equations involving all	



understand how t factors and multip <u>Prime Numbers</u> In this learning loo understand prime You will learn wha number is and ap knowledge to wor problems	recap rounding to an appropriate degree of accuracy. You will round to whole numbers, the nearest 10, 100 and 1000 . You will also round to a given number		expressions by collecting like terms. You will collect both negative and positive like terms Simplifying Expressions In this learning loop you will simplify basic expressions by multiplication	four operations, negative numbers and fractions, using inverse operations.	In this learning loop you will recap on sequences and patters. You will create a linear sequence form pictures Sequences 2 In this learning loop you will know how to identify the term to term rule from a sequence
English  Defining the Goth  In this introductor will learn about the information your before we start st Gothic Literature. exploring a definit Gothic is in order your understanding the lesson.  Gothic Convention  In this lesson were about the essential information your about the typical of this genre befors tudying Gothic Literature. exploring the conventions are indevelop your understanding the lesson.	In this lesson we will look at some typical Gothic characters to build on your understanding of the features of a Gothic text  Gothic Themes  In this lesson we will look at some typical Gothic text  Gothic Themes  In this lesson we will look at some typical Gothic text  Gothic Themes  In this lesson we will look at some typical Gothic themes. We will then tie together our understanding of Gothic conventions, characters and themes, by completing a piece of Gothic creative writing.	The importance of context for understanding historical texts  In this lesson we will look at context around women in the Victorian era and apply that knowledge when analysing the depiction of Porphyria in Robert Browning's Porphyria's Lover  Applying context in analysing language  In this lesson we will look at the next section of Porphyria's Lover and apply that knowledge when analysing the depiction of Porphyria.	Developing and justifying an opinion  In this lesson we will imagine that you are bringing a case against the narrator for murder. You will need to first establish your opinion about whether the narrator has a defence to this charge or not and then use the poem as justification for your opinion.  Writing a detailed and analytical opinion  In this lesson we will look at alternative interpretations of the narrator in the poem before you write up a detailed analysis exploring these alternatives.	Understanding the 'uncanny' and how it applies to Gothic literature  In this lesson we will look at a famous psychoanalyst, Sigmund Freud: who he was, why he was famous and then understand and apply his theory of "The Uncanny" to Gothic literature we have already looked at.  The creation of Frankenstein and applying the 'uncanny' Building on the work from the previous lesson on the 'uncanny', we will look at Mary Shelley and her inspiration for her famous novel Frankenstein and read a section from the story to apply our knowledge of "The Uncanny".	Analysing language in Frankenstein  We will look at the famous novel Frankenstein and read a section from the story to apply our language analysis skills, in particular focusing on using analytical phrasing when writing up our responses.  Understanding authorial intent and how to use this to develop analysis  We will look at the famous novelist Charles Dickens and the concept of authorial intent and apply this. We will consider, in particular, why he may have chosen to incorporate elements of the Gothic in his writing for an intended purpose.



#### **Science**

### Biology Lesson: Eukaryotes and Prokaryotes

In this lesson we are going to look at the main structures found in both Eukaroytic and prokaryotic cells with a view to comparing some of these features.

### Chemistry Lesson: Atoms, elements and compounds

In this lesson we are going to explore the ideas behind the modern structure of the atom, learn how to find elements on the periodic table and how to classify a substance as an element, compound or a mixture.

#### Physics Lesson: History of the Atom

In this lesson we will look at how our understanding of the atom has developed over time.

#### Biology Lesson: Specialised Cells

In this lesson we will be looking at how animal and plant cells can specialise to perform specific functions within an organism.

### <u>Chemistry Lesson: Separating mixtures</u>

In this lesson we are going to look into techniques used to separate different mixtures. We will look into when to use filtration, chromatography and crystallization.

#### Physics Lesson: Atomic Structure and Subatomic Particles

In this lesson we will describe the nuclear model of the atom and look at the subatomic particles within an atom.

#### **Biology Lesson: : Microscopes**

In this lesson we will be investigating the differences between visible light microscopes and electron microscopes focusing on the differences in resolution and magnification.

#### Chemistry Lesson: Isotopes

In this lesson we are going to explore the nuclear model of the atom and learn what an isotope is and how we can identify isotopes. Additionally we will recap how to calculate the number of neutrons, protons and electrons of an atom.

### <u>Physics Lesson: Working Scientifically</u> - Variables

In this lesson we will look at independent, depended and control variable and how to identify them.

#### Biology Lesson: Calculating magnification

In this lesson we will be developing our understanding of microscopes further and looking at how to calculate image sizes, object sizes and magnification of images.

### Chemistry Lesson: Electron Configuration

In this lesson we are going to look at how electrons are arranged within an atom. We are going to look at how many electrons fills an energy level or shell and who to draw the arrangement for the first 20 elements.

#### Physics Lesson: Working Scientifically – Maths Skills, Significant Figures; Means and Standard Form

In this lesson you will learn/practice some maths skills for science. This will include mean calculations, including checking for anomalies, as well as significant figures and standard form.

### Biology Lesson: Cell Division

In this lesson we will be exploring the process of mitosis in body cells and how this is used for growth, repair and replacement. We will look at the three main stages of the cell cycle and the key features of each stage.

## <u>Chemistry Lesson: History of the periodic table</u>

In this lesson we will be exploring how scientists came to represent the periodic table as it now is by looking at key developmental steps and the scientists involved. We will focus on the input from Mendeleev and how we know he was correct.

# Physics Lesson: Working Scientifically: Command Words

In this lesson we will look at different data sets and analyse them. We will focus on different command words and practise what is expected when being asked to describe, explain, compare or evaluate data.

#### **Biology Lesson: Stem cells**

In this lesson we will explore the differences between embryonic and adult stem cells in humans. We will also discuss the benefits of stem cells in plants both economically and for research purposes.

#### <u>Chemistry Lesson: History of</u> the Atom

In this lesson we will learn how the model of the atom has evolved to the current model we use today. We will look at Daltons, JJ Thompson, Rutherford and Bohr's model and how these theories connect in to our current accepted model.

#### Physics Lesson: Working Scientifically – Continuous and Categorical Data

This lesson will take a focus on some of the key skills of working scientifically. We will address the concepts of continuous and categoric variables before looking at key principles for drawing and interpreting graphs of data.



Spanish	Using the present tense to	Using the present tense to	Using the present tense and justifying	Using the past tense to talk	Using the past tense to talk	Using the past tense to talk
	describe family:  This week we will be revising use of the present tense and family vocabulary. We will then use this to introduce and describe someone else in Spanish.	talk about free time:  This week we will be revising use of the present tense and free time vocabulary. We will then use the present tense to describe our hobbies.	opinions:  This week we will learn how to give justified opinions on free time isolation activities using an opinion phrase, an infinitive and an adjective.	about holidays:  This week we will revise the past tense and holidays vocabulary. We will then give opinions about previous holidays.	about holidays part 2:  This week we will recap how to talk about where we went on holiday last year and how to give our opinion in the past tense. We will also learn how to add more detail to our basic past tense opinion.	about holidays part 3:  This week we will recap how to say where we went on holiday last year and how to give a detailed opinion in the past tense. We will also recap our knowledge of Latin American countries and
Geography	What is development:	Development indicators:	What factors influence development:	What is the global pattern of	How has the UK developed	broaden our knowledge of key Spanish cities. How does uneven
	In this lesson, you will learn what development means and how we can rank and compare countries globally. You will understand the difference between standard of living and quality of life and the significance of these indicators in comparing lifestyles across the world.	In this lesson, you will learn the names and definitions of many important development indicators. You will understand the difference between economic and social indicators and how these make comparing countries more accurate and evidence-based.	In this lesson, you will learn all about different factors that can influence development. You will understand that these influences can help a country to develop but some others could make the development process more difficult.	development?: In this lesson, you will learn about the current global pattern of development using some of the key indicators covered in lesson 2. You will then move onto reflecting on how much progress has been made in key areas such as average life expectancy and ensuring all children complete their primary education.	over time? In this lesson, we will learn about how the UK has developed over time. We will consider different factors which shaped our development and then summarise the changes which still exist in levels of development across the UK today.	development impact on quality of life? In this lesson, we will learn about the link between development and quality of life. We will consider different indicators of development and how these vary across the globe and even within countries, which create inequality.
History	Why were Britain and Russia enemies?  This is the first lesson of a new unit about the Russian Revolution.  This lesson explores the relationship between Britain and the Soviet Union and looks at why they were enemies during the 1960s. Students will understand what the Soviet Union was and the concerns in the world at the time.	Tsarist Russia  This lesson introduces students to the Russian Revolution. This lesson will focus on Tsarist Russia and why they were opposed by the Bolsheviks. Students will understand the differences faced between the Monarchy and its people.	This lesson will focus on the Russian Revolution looking at the events that took place and the changes that were made. The focus will be on the working class movement to overthrow the Tsar Nicholas II. This will also introduce key players of the Bolsheviks. Students will then have an understanding of how the Soviet Union was created.	The October Revolution  This lesson will focus on the continuation and escalation of the Russian Revolution.  Students will learn about the social revolution that took part and the establishment of the Communist system.	The Civil War  This lesson will focus on the aftermath of the Russian Revolution. It will focus on the time period from 1918-1923 when Civil War occurred due to opposition groups forming against Lenin. Students will learn about the opposition groups that formed the Whites and the Bolsheviks the Reds.	This lesson will focus on the changes made to social policies in Russia throughout the 1920s. It will look at the limitations of media, social rights, education and what it meant to live in a Totalitarian state.



Art	War & Conflict - Mind map of themes  This is the first lesson to begin our project on 'War and Conflict'. We will be researching ideas and looking at examples of conflict. We will consider how they have been described and what images are associated. We will plan and create a detailed mind-map.	Creating a response  We are going to create an art work using pencil, coffee and household objects, which links to our theme of war and conflict.	Pen Study In today's lesson we are going to create a pen study that links to our theme of 'War and Conflict'.	Collage In today's lesson we are creating a collage which links to our theme of 'War and Conflict'.	Zentangle Work  In today's lesson we are going to create a Zentangle inspired artwork which links to our theme of war and conflict.	Text as art  In today's lesson we are creating a Text artwork which links to our theme of 'War and Conflict'.
Computer Science	Units  In this lesson we will introduce the topic of binary. Students will learn why computers use binary numbers, the different units numbers use and how to calculate and convert between the different binary units.	Binary Conversions  In this lesson, we will learn how to convert a denary number to and from binary.  We will learn how to convert up to a byte of binary to denary.	Hexadecimal conversion  In this lesson we will learn to Convert between binary, denary and hexadecimal numbers and explore the benefits of and reason for using all three number systems	Characters  In this lesson we will be exploring the difference between different character sets. We will look how characters set are created and the uses for each character set.	Images In this lesson we will be exploring how images are constructed using a computer. How images are represented by binary and how image sizes are calculated.	Sound  In this lesson we be exploring how sound is sampled by a computer, the difference between an analogue and digital sound and what factors effect a sounds file size.
Creative iMedia	Reviewing mood boards  In this lesson students will learn the importance of review pre-production mood boards. They will learn the key conventions of a mood board and how to criticise it and suggest improvements.	Reviewing mind maps In this lesson students will learn the importance of review pre-production mind maps. They will learn the key conventions of a mind maps and how to criticise it and suggest improvements.	Camera shots In this lesson we will learn the differences between camera shots, camera angles and camera movements as well as knowing key examples for each type.	Reviewing Scripts  In this lesson students will learn the importance of review pre-production scripts. They will learn the key conventions of a scripts and how to criticise it and suggest improvements.	Reviewing Storyboards  In this lesson students will learn the importance of review pre-production storyboard. They will learn the key conventions of a storyboard and how to criticise it and suggest improvements.	Reading a client brief In this lesson we will learn the importance of reading a client brief, what may be include in a client brief and how to meet the clients expectation.
Design Technology	Extreme Design  In this first lesson you will learn about extreme designs and how they are tested using a variety of CAD/ CAM processes	Mechanical Systems  We are going to learn the basics of mechanical systems. E.g. Types of motion, cams and followers.	Design and Technology: Microcontrollers  In this lesson we are going to learn the basics of microcontrollers. Using key terms such as input, process and output relating to real world examples.	Product Development  We are going to learn about how designers create new solutions to problems and how they change existing designs.	Design and Technology: Product lifecycle In today's lesson we are going to learn the basics of product life cycles.	Design and Technology: Evaluating Design Ideas In today's lesson we are looking at how you would evaluate your design ideas.



Drama	How to tackle a monologue	Revision: Stanislavski	Revision: Brecht	Revision: Artaud	Rehearsing a monologue	How to write a Brechtian
	In this lesson we will look at some of the key considerations when faced with a monologue for the first time. We will specifically focus on physicality and vocal work.  Rehearsing a monologue  In this lesson you will choose a monologue and rehearse it using the pointers we looked at in the previous lesson. You will also begin to evaluate your performance.	In this lesson we will begin our revision of the key practitioners we learned about at the start of the year – starting with Stanislavski.  Applying the techniques of Stanislavski  In this lesson you will be guided through the ways in which you can apply the key techniques of Stanislavski to a text.	In this lesson we will move on to the next key practitioner – Brecht. We will re-cap his key principles, and what his philosophy was for the theatre.  Applying Brechtian Techniques  In this lesson we will consider the ways in which a text can be made 'Brechtian' through the use of his techniques. We will compare and contrast a Brechtian text with a non-Brechtian text	In this lesson we will move on to revise our third key practitioner – Artaud. We will consider what he believed to be the purpose of theatre, and the effect he wanted theatre to have on an audience  Applying Artaudian Techniques  In this lesson we will get creative and think about how we would create an Artaudian inspired scene, using his key principles.	In this lesson we will look at a monologue that is traditionally performed using the conventions of Naturalism, and consider how we can apply Stanislavski's techniques to the monologue.  Self-evaluation of my performance  In this lesson you will self-evaluate your performance, and consider the effectiveness of the Stanislavski techniques used. We will consider how these techniques can help an actor engage with a text in a meaningful way.	In this lesson we will get creative and create our own monologue, inspired by Brechtian techniques. This will involve writing a monologue and incorporating ideas of how Brecht wanted performers to interact with an audience.  Rehearsing, performing and evaluating my Brechtian monologue  In this lesson you will use the monologue you wrote in the previous lesson, and move it from the page to the stage. This will involve thinking about the role of the actor when performing in a Brechtian way – and considering how it is different from a Stanislavski-inspired performance.
Engineering	In this first lesson you will learn about extreme designs and how they are tested using a variety of CAD/ CAM processes	Mechanical Systems  We are going to learn the basics of mechanical systems. E.g. Types of motion, cams and followers.	Design and Technology: Microcontrollers  In this lesson we are going to learn the basics of microcontrollers. Using key terms such as input, process and output relating to real world examples.	Product Development  We are going to learn about how designers create new solutions to problems and how they change existing designs.	Design and Technology: Product lifecycle In today's lesson we are going to learn the basics of product life cycles.	Design and Technology: Evaluating Design Ideas In today's lesson we are looking at how you would evaluate your design ideas.
Food & Nutrition	Enzymes and food poisoning  This is the first lesson in revisiting topics throughout the academic year. We will be looking at Enzymes and the	Food safety, key temperatures, danger zones and safe probe use  We are going to learn about keeping safe in a food and	Food Choice; religion and culture, vegetarianism, veganism and world cuisine  In today's lesson we are going to learn about the many different food	Food Choice: special diets, allergies and intolerances  In today's lesson we are going to extend our knowledge of food choices. E.g. Special	Micro and macro nutrients, Energy balance and age related issues	Practical challenge related to nutrients and age  In today's lesson there will be a practical challenged which is related to nutrients and



	many different types of food poisoning.	nutrition room, understanding key temperatures and knowing what are the danger zones.	choices. E.g. Due to religion and culture, vegetarianism etc.	diets, allergies and intolerances.	We are going to learn the basics of micro and macro nutrients based on energy balance and how it could relate to issues with age.	what is needed for a particular age of a person.
Media	Revision of SCEMES  Revising the different elements of sound for analysis of moving image texts.  Watch examples of the different elements. Discussion of how to apply when writing in essays.	Revision of editing  Examples of each type of editing  Discussion on how to apply in essays	Revision of cinematography and events/themes/atmosphere  Revision of the key terminology and meanings  Discussion of how to apply when analysing moving image texts.	Revision of mise-en-scene and special effects  Revision of key terminology and meanings  Discussion of how to apply to texts	Revision of key concepts in RAILING  Revision of Narrative theories  Discussion of application of the theories	Revision of key terminology, focussing on demographics and psychographics Discussion on how to apply
Sociology	Functionalism  In this lesson students will look at what functionalism is again and gain some more background information which will aide their learning for future topics.	Marxism  In this lesson students will look at what Marxism is again and gain some more background information which will aide their learning for future topics.	Marxism  In this lesson students will look at what Marxism is again and gain some more background information which will aide their learning for future topics.	New Right  In this lesson students will look at what New Right is and gain some more background information which will aide their learning for future topics.	Feminism  In this lesson students will look at what functionalism is again and gain some more background information which will aide their learning for future topics.	Interactionism  In this lesson students will look at what functionalism is and gain some more background information which will aide their learning for future topics.
RSCS	In this lesson we will be exploring what 'stress' and 'wellbeing' are. We will be learning why it is important to maintain our wellbeing and minimise stress and ways in which we can do this.	Working from home during lockdown  In this lesson, we will explore how to effectively work from home during lockdown, by considering how to tackle some of the main difficulties experienced when working from home.	Online safety and social media  In this lesson we will be exploring how to stay safe online, specifically on social media websites. We will be learning why it is important to consider what you are posting online and potential consequences of not doing this.	Grooming  In this lesson, we will investigate what 'grooming' is and why it is dangerous. To understand this, we will look into the different types of grooming and explore a reallife case of grooming.	Cyber Bullying  In this lesson, we'll explore what cyber bullying is and the different types of cyber bullying that can be experienced.	Money & Budgeting  In this lesson we look into the topic of money and budgeting including investigating key terms linked to this topic.



PE	Circuit training	Fartlek	Heart Rate	нііт	Pyramid	Warm up and cool down
	To be able to explain the advantages and disadvantages to circuit training  Students will get a content recap, followed by mini task, active task and self-marking quiz	To be able to identify the differences between Fartlek and continuous training.  Students watch to descriptive videos, complete workout and complete self-marking quiz.	To be able to identify the long- and short-term effects of exercise on your heart rate.  Students watch the PowerPoint, complete the home workout and complete the assignment set on teams.	Describe what HIIT Training is and complete a HIIT workout.  Students will get a content recap, followed by mini task, active task and self-marking quiz	To be able to describe what pyramid training is and how it can be used as part of a health and fitness programme.  Students to watch the PowerPoint, complete the workout and the self marking quiz.	To be able to describe the psychological and physiological changes that occur in the body. Students watch to descriptive videos, complete work out and complete self-marking quiz.