GAIRR	Year 6 Overview							
W	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer2		
Geography		 North America KLP: Understand the significance of the Bering Strait Understand climate zones, weather patterns and ocean currents Understand the agricultural diversity between the Caribbean and North America. Understand the route of the transcontinental railroad in the United States of America. Recognise mountainous areas and the extraction of natural resources. Understand the difference between metropolitan and cosmopolitan. Understand the pattern of population growth and spread. Understand how rivers are used for trade and transport Understand the physical features and route of the Colorado river. 			 Savannah, Taiga and Tem Recognise physical feature Understand how biomes a preserve them Understand and recognise system 	nwater, Grassland, Ice, Marine, perate deciduous biomes es of biomes		
History	The Ancient Mayans History – A non-European society that provides contrast with British History. KLP:		History – The Viking and Anglo- Saxon struggle for the kingdom of England.	World War II Battle of Britain History – Hitler's invasion of Europe and its impact on Britain. KLP: Identify the axis and allies in World War 2. What life was like during World War 2: Evacuation, rationing. Who was Anne Frank? What life was like for soldiers in World War 1 and 2. The Blitz. Anderson/Morrison Shelters. Propaganda.				

Science

A journey through your body

KLP:

- Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.
- Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.
- Describe the ways in which nutrients and water are transported within animals, including humans.

Working scientifically

- Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
- Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
- Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
- Use test results to make predictions to set up further comparative and fair tests.
- Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.
- Identifying scientific evidence that has been used to support or refute ideas or arguments

Classifying Living things

- Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals
- Give reasons for classifying plants and animals based on specific characteristics.

Working Scientifically

- Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
- Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
- Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. Use test results to make predictions to set up further comparative and fair tests.
- Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.
- Identify scientific evidence that has been used to support or refute ideas or arguments.

Evolution and inheritance

- Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.
- Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.
- Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

Working scientifically

 Identify scientific evidence that has been used to support or refute ideas or arguments

How can you light up your life?

KLP:

- Recognise that light appears to travel in straight lines.
- Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.
- Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.
- Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

Working Scientifically

- Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
- Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
- Use test results to make predictions to set up further comparative and fair test

Sex and Relationships Education

KLP:

- Puberty
- How babies are made

Electricity KLP

- Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.
- reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on / off position of switches.
- Use recognised symbols when representing a simple circuit in a diagram.

Working Scientifically

- Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
- Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
- Record data and results of increasing complexity.
- Use test results to make predictions to set up further comparative and fair tests
- Report and present findings from enquiries, including conclusions. presentations.
- Identify scientific evidence that has been used to support or

R.E. (PSHE)	Why is Diwali celebrated by both Hindus and Sikhs? KLP: Hindus beliefs about different forms of God. Festival of Diwali. The significance of Rama and Sita. Rangoli Patterns and their importance during Diwali celebrations.	What is prayer and meditation? KLP: Importance of prayer for Christians, Jews and Hindus. To examine how people of different faiths worship/pray at home. To learn how important prayer is within a religious community Temple/church/synagogue/mosque. The aspects of prayer (forgiveness, adoration, intercession, supplication). The importance of meditation and its origins.	How do different religions celebrate birth, coming of age and marriage? KLP: • Understand what a marriage is. • Compare how different religions celebrate marriage. • Understand the Christian beliefs relating to baptism, confirmation and marriage. • Jewish bar/bat Mitzhahimportance and celebrations	What do people believe happens after someone dies? KLP: • Understand the interpretation of death from the perspective of different religions and beliefs.	 How babies are born How can religious meaning be expressed through art? KLP: Islamic patterns and buildings, art and architecture Christian art e.g. analysing stain glass windows Buddhists mandalas How music is used as a form of worship 	refute ideas or arguments What matters most to Christians and Humanists? • This investigation enables pupils to learn in depth from Christianity and from Humanism, a nonreligious way of life. • What is humanism? • What does a non religious way of life mean? • What are the similarities and differences between humanism and
Art & Design	Rangoli Patterns (Diwali Art) Gods and Goddesses sketches/watercolours. KLP:	Landscape art- Mountains and Rivers KLP: • Using a sketchbook to develop skills and ideas • Looking at the work of Georgia O'Keefe and David Hockney, comparing and contrasting landscape styles and re-recreating local landscapes in this style using paint, pastels and collage	Designing and making a Viking shield. Viking Gods and Goddesses - watercolours. Shakespeare portraits - sketching. KLP: Selecting tools to create drawings. Developing the techniques sketching shading and tinting. Create work, which is open to interpretation by the audience. Include both visual and tactile elements to their work. Combining pattern, tone and shape.	Sketches of WW2 soldiers. Propaganda Posters. KLP: Selecting tools to create drawings. Developing the techniques sketching shading and tinting. Justify the materials chosen for collage. Combining pattern, tone and shape. Include technical aspects in their work. Describe what their work is influenced by.	 Look at shape, colour are biome Identify blocks of colour made lighter or darker to 	es' by T.S. Eliot onding to light and dark coal

			 Include technical aspects 			
			in their work.			
			Choosing and explaining			
			their own style of painting.			
			Using a wide range of			
			techniques within painting such as: brush strokes,			
			foreground, background Understand why they			
			have used a technique.			
	Design and make a Mayan		Viking Jewellery.	Design and make a WW2	Biome Shoebox	
	Mask.		KLP:	Anderson Shelter.	KLP:	
	KLP:		Consider culture and	KLP:		es using a range of carefully
	Research the historical		society in their designs.	Research the historical	selected materials to rep	
	factors that link to their	FAIRA	 Use tools and materials 	factors that link to their	Design, plan and improve	
	design.		precisely to shape clay.	design.		entifying successes and points
	 Consider culture and 		 Adapt plans, tools and 	Follow and refine their	for improvement	,, ,, g a a a a a a a a a a a a a a a a a a
	society in their designs.		materials if required.	plans.		
	 Justify and evaluate their 			 Adapt plans, tools and 		
	plan.		Designing and making a Viking	materials if required.		
_	 Adapt plans, tools and 		long boat.	 Use tools and materials 		
8	materials if required.		KLP:	precisely and safely		
<u>o</u>	 Use tools and materials 		Research the historical	(household materials).		
0	precisely to shape clay.		factors that link to their	 Discuss whether it is fit 		
ج			design.	for purpose.		
	Making a healthy sandwich.		 Follow and refine their 			
	KLP:		plans.			
Design &	 Use market research to 		Adapt plans, tools and			
<u>.</u>	inform plans.		materials if required.			
es	Work within		Use tools and materials			
۵	constraints. Follow		precisely and safely			
	and refine their plans.		(household materials).			
	Justify and evaluate	9				
	their plan.					
	 Adapt plans, tools and materials if required. 					
	 Use tools and materials 					
	precisely and safely i.e.					
	knives to cut, spread					
	and slice.					
	 Taste test and evaluate 					
	their final product.					
	Нарру!	Classroom Jazz 2	A New Year Carol	You've Got A Friend	Music and Me	Reflect, Rewind and Replay
	 learning in this unit is 	This is a six-week Unit of Work	 Pulse games. 	Warm-up games.	 explore the concept 	 this consolidates the
	focused around one	that builds on previous learning.	 Rhythm games. 	Option: Flexible Games.	of 'identity' – the	learning that has
	song: Happy, a Pop	 Learning is focused around two 	Pitch Games.	 Vocal warm ups and 	various elements that	occurred during the
ن	song by Pharrell	tunes and improvising:	 Vocal Warm-ups. 	start to learn the song.	shape us.	year.
Music	Williams	Bacharach Anorak and Meet The	 Learning is focused 	 Play instrumental parts. 	 How social and 	 Revisiting songs and
5	games, the	Blues	around one song from	Improvise.	cultural differences	musical activities, a
	dimensions of music		Benjamin Britten's Friday	 Compose. 	influence music.	context for the
			Afternoons: A New Year	 Vocal improvisation 	 Children try out 	History of Music and
	(pulse, rhythm, pitch				• Ciliaren ti y out	riistory or ividisio aria
	etc), singing and		Carol.	within the song.	different ways of	the beginnings of the
					· ·	-

		Christmas Performance: Skills will vary depending upon the performance chosen but may include: • Singing together/solo/duets. • Performance to a live audience • Singing in harmony/different parts • Using music alongside drama and dance	Opportunity to research Benjamin Britten's life and to listen to many of his other works through links to Fridayafternoonsmusic.co.uk	Choose and play two performance options, then decide which one to practise for the end of unit performance.	music, while exploring the work of some of the most influential women in music over the last 100 years. Shiva Feshareki Eska Mtungwazi: Afrodeutsche: Anna Meredith. Discover that music offers a way of exploring and expressing our identity, giving us confidence, power and purpose	 Listen and Appraise Classical music Continue to embed the foundations of the interrelated dimensions of music using voices and instruments Singing Play instruments within a song Improvisation using voices and instruments Composition Share and perform the learning that has taken place
Computing	Internet communication KLP: Recognising how the WWW can be used to communicate and be searched to find information.	Webpage creation KLP: • Designing and creating webpages, giving consideration to copyright, aesthetics and navigation.	Variables in games KLP: • Exploring variables when designing and coding a game.	Introduction to spreadsheets KLP: • Answering questions by using spreadsheets to organise and calculate data.	3D modelling KLP: Planning, developing, and evaluating 3D computer models of physical objects.	Sensing KLP: • Designing and coding a project that captures inputs from a physical device.
P.E.	Netball. KLP: To further develop knowledge of attacking and defending. To know how to intercept a pass. To know how to invade as a team. To communicate effectively with team mates. To develop sportsmanship Sports Leader Sessions – Led by Chance Camp. This includes: Small team games Play leader training Evaluating activities and perfecting games Following and setting rules	Invasion Games - Hockey KLP: To develop teamwork. To further develop knowledge of defending. To dribble a ball with control and fluency using foot or hockey stick. To further develop knowledge of attacking. To strike a ball or object towards a target or goal with power and accuracy	Circuit training Invasion Games KLP: To develop teamwork. To further develop knowledge of defending. To dribble a ball with control and fluency using foot or hockey stick. To further develop knowledge of attacking. To strike a ball or object towards a target or goal with power and accuracy	 KLP: Able to move with a range of dynamics to express different emotions. Able to execute jitterbug actions. Able to develop relationships – leading and following. Able to demonstrate unison as a group. Able to demonstrate and create shapes representing unity Bleep Test – Running Skills. Sports hall Athletics 	Athletics KLP: To develop the technique in order to race walk. Learn to measure & record performance To train the body to run for a longer duration. To sustain pace over longer distances. To choose appropriate techniques for specific events Striking and Fielding KLP to understand: To field as a collaborative team unit.	Athletics (As Summer 1) Striking and Fielding (As Summer 1) Coach

	Explaining				To strike a ball or	<u> </u>
	games/activities to others • Use of equipment				object 'cleanly' using different equipment. To retrieve, intercept and stop a ball when	
	sensibly and safely.				fielding. To strike a ball or object using both sides of the body. Recognise their own	
		FAIR			and other's strengths • Rounders	
	Skellig	There's a boy in a girl's bathroom.	Macbeth	Goodnight Mister Tom	Floodland	SENSATIONAL Poems
	KLP:Protagonist study.	KLP:	KLP:To explore the themes of a	KLP:	KLP:To engage children	Inspired by the senses by Roger McGough
	 Explore key themes 	Poetry.	Shakespeare tragedy.		with a story with	by Nogel Wicoough
	and setting.	Protagonist study.	To explore complex	Protagonist thoughts	which they will	KLP:
	 Detailed setting 	Diary from the perspective of a	relationships within story	and feelings.	empathise	The Magic of the Brain
	description.	child.	To begin to understand	Poetry.	To explore themes	Jenny Joseph
	Balanced argument for	Dialogue between characters.	the language of	Newspaper article for the declaration of war	and issues, and	Performance poetry (Vegan Delight
	and against home schooling.	 Formal education report about the main character. 	Shakespeare.	the declaration of war. • Emotive letter from a	develop and sustain ideas through	Vegan Delight Benjamin Zephaniah)
	Film adaptation.	main character.Writing an email in role	 Setting description of the 	soldier's perspective	discussion	Preludes TS Elliott
	Poetry	Drama and hot seating	heaths.	with a focus on	To develop creative	Creating poems in the
	Writing in role	Druma and not seating	Re-enactment of the	flashbacks.	responses to the text	style of a poet
	Diary entry		battle.	 Diary entry from 	through drama,	 Poetic features of
	William Blake		A detailed description of	Williams perspective –	storytelling and	simile, metaphor,
sh			the battle.	focus on character tone.	artwork	syllables,
			Letter from the	Film adaptation review	To write in role in order to explore and	onomatopoeia.
Engli		7 /	perspective of the	Drama/hot seatingDrawing characters and	order to explore and develop empathy for	 To read, enjoy and respond to poetry
_			protagonist. • Biography of	settings	characters.	To broaden
			Shakespeare's life.	Writing in role, letters as	To write with	understanding of
			 Links to Viking myths and 	Mr Tom.	confidence for real	writers' use of
		3	legends.	Film review	purposes and	language
				 Character analysis 	audiences	 To prepare poems to
					Description of Eel's	read aloud and
					island. Protagonist study	perform.
					Protagonist study.Newspaper report.	 To compose poetry
					Letter writing	
					Writing in role	
					Poetry	
			'		Persuasive speeches	
					 Free writing 	
					opportunities .	
	Punctuation	Punctuation	Punctuation	Punctuation	Punctuation	Consolidation (Key
SPaG	 Using relative clauses beginning with who, 	 Subjunctive Form- recognising vocabulary and structures that is 	 Using a colon to introduce a list Use of semicolons 	 Recognising vocabulary and structures that is 	 Cohesion Linking ideas across paragraphs 	Stage 2) Coverage of all
SP	which, where, when,	appropriate for formal speech and	within lists Punctuating	appropriate for formal	using a wider range of	KS2 Grammar,
	whose, that or with an	writing, including subjunctive forms	bullet points consistently	speech and writing,	cohesive devices:	
	,	,		,		

- implied relative pronoun
- Using modal verbs to indicate degrees of possibility
- Using adverbs to indicate degrees of possibility
- Using brackets, dashes or commas to indicate parenthesis
- Using expanded noun phrases to convey complicated information concisely
- Using the perfect form of verbs to mark relationships of time and cause
- Using commas to clarify meaning or avoid ambiguity in writing
- Synonyms and Antonyms - how words are related by meaning as synonyms and antonyms [for example, big, large, little]

Spelling

 Homophones & Near Homophones: Nouns that end in -ce/-cy and verbs that end in -se/sy Adjectives ending in -ant into nouns ending in -ance/ -ancy Adjectives ending in ent into nouns ending in -ence/ -ence

- The difference between vocabulary typical of informal speech and vocabulary appropriate for formal speech and writing [for example, find out – discover; ask for – request; go in – enter]
- The difference between structures typical of informal speech and structures appropriate for formal speech and writing [for example, the use of question tags: He's your friend, isn't he?, or the use of subjunctive forms such as If I were or Were they to come in some very formal writing and speech])
 Recognising subjunctive forms

Spelling

- Words ending in -able
- Words ending in -ably
- Word families based on common words, showing how words are related in form and meaning
- Creating diminutives using prefixes microor mini

- Punctuation of bullet points to list information
- Active and Passive –
- using passive verbs to affect the presentation of information in a sentence
- using semi-colons to mark boundaries between independent clauses
- Using colons to mark boundaries between independent clauses.
- Using dashes to mark boundaries between independent clauses
- Hyphens using hyphens to avoid ambiguity [for example, man eating shark versus maneating shark, or recover versus recover

Spelling

- Adding suffixes beginning with vowel letters to words ending in -fer
- Words with a long /e/ sound spelt 'ie' or 'ei' after c (and exceptions)
- Words with the long /e/ sound spelt 'ie' or 'ei' after c (and exceptions)
- Word families based on common words, showing how words are related in form and meaning
- Statutory spellings challenge

- including subjunctive forms
- The difference between vocabulary typical of informal speech and vocabulary appropriate for formal speech and writing [for example, find out – discover; ask for – request; go in – enter]
- The difference between structures typical of informal speech and structures appropriate for formal speech and writing [for example, the use of question tags: He's your friend, isn't he?, or the use of subjunctive forms such as If I were or Were they to come in some very formal writing and speech]

Spelling

- Words with endings which sound like /shuhl/
- Words with a 'soft c' spelt /ce/
- Word families based on common words, showing how words are related in form and meaning
- Statutory Spelling Challenge Words

repetition of a word or phrase, grammatical connections [for example, the use of adverbials such as on the other hand, in contrast, or as a consequence], and ellipsis Layout devices [for example, headings, subheadings, columns, bullets, or tables, to

Spelling

Word families based on common words, showing how words are related in form and meaning

structure text]

- Words that can be nouns or verbs
- Words with a long /o/sound spelt ou or ow
- Words ending in ible
- Words ending in ibly

- Vocabulary and Punctuation objectives
- Review of statutory spellings
- Review of spelling rules learned throughout the year

Place Value

- Read, write, order and compare numbers up to 10 000 000
- Round any whole number
- Use negative numbers in context, and calculate intervals across zero.
- Count forwards or backwards in steps of integers, decimals

Fractions, percentages, ratio and proportion

- Identify common factors, common multiples and prime numbers.
- Compare and order fractions, including fractions >1
- Add and subtract fractions with different denominators and mixed numbers
- Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. ³/₋).

Place value

- Count forwards or backwards in steps of integers, decimals or powers of 10 for any number.
- Describe and extend number sequences
- Use simple formulae.
- Generate and describe linear number sequences.

Geometry

• Describe positions on the full

Addition & Subtraction

- Add and subtract whole numbers and decimals using formal written methods
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- Use their knowledge of the

Place Value

- Count forwards or backwards in steps of integers, decimals or powers of 10 for any number.
- Order and compare numbers including integers, decimals and negative numbers.
- Identify, represent and estimate numbers using

Place Value & Decimals

- Count forwards or backwards in steps of integers, decimals or powers of 10 for any number.
- Order and compare numbers including integers, decimals and negative numbers.
- Calculate differences in temperature

Maths

- or powers of 10 for any number.
- Order and compare numbers including integers, decimals and negative numbers.
- Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number.
- Recall and use addition and subtraction facts for 1 (with decimal numbers to two decimal places).
- Round decimals with three places to the nearest whole number or one or two decimal places.
- Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.

Addition & Subtraction

- Perform mental calculations, including with mixed operations and large numbers and decimals.
- Choose an appropriate strategy to solve a calculation
- Solve addition and subtraction multi-step problems
- Express missing number problems algebraically.
- Find pairs of numbers that satisfy an equation with two unknowns.
- Use estimation and inverse to check answers to calculations
- Add and subtract whole numbers and decimals using column addition and subtraction
- Solve problems which require answers to be rounded to specified degrees of accuracy.

Multiplication & Division

 Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication.

- Recall and use equivalences between simple fractions, decimals and percentages
- Solve problems involving fractions.
- Find simple percentages of amounts.
- Solve problems involving the calculation of percentages
- Solve problems involving similar shapes where the scale factor is known or can be found.
- Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Geometry

 Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

Statistics

- Interpret and construct pie charts and line graphs and use these to solve problems.
- Solve comparison, sum and difference problems using information presented in all types of graph.

Measures

- Solve problems involving the calculation and conversion of units of measure (including money and time)
- Use, read, write and convert between standard units, converting measurements of length and mass
- Convert between miles and kilometres.
- Recognise that shapes with the same areas can have different perimeters and vice versa.
- Calculate the area of parallelograms and triangles.
- Recognise when it is possible to use the formulae for area and volume of shapes.
- Calculate, estimate and compare volume of cubes and cuboids using standard units

- coordinate grid (all four quadrants).
- Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

Measures

- Use negative numbers in context
- Order and compare numbers including integers, decimals and negative numbers.
- Calculate and interpret the mean as an average.

Fractions

- Identify common factors, common multiples and prime numbers.
- Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
- Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
- Multiply simple pairs of proper fractions, writing the answer in its simplest form
- Divide proper fractions by whole numbers
- Calculate decimal fraction equivalents for a simple fraction

Multiplication & Division

- Divide numbers up to 4 digits by a two-digit whole number using long division
- Divide numbers up to 4 digits by a two-digit number using short division
- Use written division methods where the answer has up to two decimal places.
- Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication.
- Multiply one-digit numbers with up to two decimal places by whole numbers.

order of operations to carry out calculations involving the four operations.

Measurement, Ratio and proportion

- Solve problems involving similar shapes where the scale factor is known or can be found.
- Use, read, write and convert between standard units, converting measurements of length, mass, volume and time
- Solve problems involving the calculation and conversion of units of measure (including money and time)
- Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
- Solve problems involving the calculation of percentages
- Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
- Convert between miles and kilometres.

Geometry

- Draw 2-D shapes using given dimensions and angles.
- Recognise, describe and build simple 3-D shapes, including making nets.
- Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
- Continue to complete and interpret information in a variety of sorting diagrams

- the number line.
- Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number.
- Round decimals
- Simplify fractions
- Compare and order fractions,
- Add and subtract fractions
- Calculate decimal fraction equivalents

Multiplication & Written Calculation

- Perform mental calculations, including with mixed operations and large numbers and decimals.
- Add and subtract whole numbers and decimals using formal written methods
- Solve problems involving addition, subtraction, multiplication and division, using formal written methods.
- Use estimation and inverse to check answers to calculations

Fractions, ratio and proportion

- Multiply simple pairs of proper fractions
- Divide proper fractions by whole numbers
- Solve problems involving the calculation of percentages
- Solve problems involving similar shapes where the scale factor is known or can be found.

Geometry

- Draw 2-D shapes using given dimensions and angles.
- Describe positions on the full coordinate grid (all four quadrants).

- Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number.
- Round decimals with three places
- Describe and extend number sequences

Measures

- Solve problems involving the calculation and conversion of units of measure
- Use, read, write and convert between standard units
- Calculate, estimate and compare volume of cubes and cuboids using standard units

Addition, Subtraction, Multiplication & Division

- Perform mental calculations, including with mixed operations and large numbers and decimals.
- Add and subtract whole numbers and decimals using formal written methods
- Solve problems involving addition, subtraction, multiplication and division using formal written methods
- Use estimation and inverse to check answers to calculations

Fractions

- Use common factors to simplify fractions
- Compare and order fractions, including fractions >1
- Add and subtract fractions with different denominators
- Multiply simple pairs of proper fractions
- Divide proper fractions by whole numbers

Multiply one-d with up to two by whole number by a two-digit vusing long division. Divide number by a two-digit rushort division, iremainders Use written divin cases where has up to two of Perform mental including with operations and numbers and dustron, subtranultiplication at Express missing problems algeby. Geometry Draw 2-D shaped dimensions and Recognise, dessimple 3-D shamaking nets. Compare and of geometric shaped their properties find unknown at triangles, quadregular polygor. Continue to cointerpret inforr variety of sortiu (including thos properties of nushapes).	decimal places bers. s up to 4 digits whole number ion s up to 4 digits number using interpreting ision methods the answer decimal places. Il calculations, mixed large ecimals. s involving action, and division. g number oraically. es using given d angles. cribe and build pes, including llassify pes based on s and sizes and angles in any rilaterals, and ns. mixed large ecimals. s involving action, ard division. g number oraically.	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use the formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cubolds Statistics Interpret and construct pie charts and line graphs and use these to solve problems. Solve comparison, sum and difference problems using information presented in all types of graph.	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. Algebra & Sequences Describe and extend number sequences including those with multiplication and division steps, inconsistent steps, alternating steps and those where the step size is a decimal. Use simple formulae. Generate and describe linear number sequences. Measures Solve problems involving the calculation and conversion of units of measure (including money and time), using decimal notation up to three decimal places Use, read, write and convert between standard units Calculate and interpret the mean as an average. Statistics Solve comparison, sum and difference problems using information presented in all types of graph.	 Draw 2-D shapes using given dimensions and angles Recognise, describe and build simple 3-D shapes, including making nets. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. Continue to complete and interpret information in a variety of sorting diagrams Illustrate and name parts of circles, including radius, diameter and circumference Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
Science Rea Mayan Wo Mayan C	rkshop Remembrance Assembly	Macbeth Drama Workshop Fullie House Outreach Programme Christian marriage workshop. WWII Trip Darwin Workshop	Water Workshop Heritage Trust Visit	Residential Courts Visit