DALLAM PRIMARY SCHOOL



Year 5 Curriculum

Intent

The curriculum at Dallam Primary is designed to provide a broad and balanced education that meets the needs of all of our children while delivering the programmes of study outlined in the National Curriculum in England. Through a wide range of subjects, it encourages effective communication, independence, curiosity, creativity and resilience to produce collaborators, innovators and leaders. Promoting physical development and mental well-being are key elements in supporting the development of the whole child and promoting a positive attitude to learning.

Central to our curriculum are core skills that underpin everything that we do:

Active Learning:

- To seek out and enjoy challenges
- To collaborate with others
- To show commitment and perseverance
- Assess themselves and others

Basic Skills:

- To speak clearly and convey ideas confidently
- To read and communicate ideas in writing efficiently and effectively.
- To calculate efficiently and apply skills to solve problems
- To use new technologies confidently and purposefully

Creative Thinking:

- To ask questions to extend their thinking
- To generate ideas and explore possibilities
- To overcome barriers by trying out alternatives or new solutions
- To connect ideas and experiences in inventive ways

Our approach enables children to make connections within and across subjects as they acquire the knowledge, understanding and skills they will need for the next stage in their learning and to make a positive contribution to and celebrate diversity within their community and in the wider world today and in the future.

Long Term Plan

	AUT	UMN	SPR	ING	SUMMER		
Science	Earth an For	d Space ces	Properties and ch	anges of materials		nd their habitats Iding humans	
Computing		arch Engines Ifety	v	ning Music afety	•	nd the Mars Rover afety	
History	The Mayans – Contrastin with Britis	ng Non-European History sh History		ayans and Empire	Impact on the	nces and Architecture Western World and Empire	
Geography				outh America North and Sou and states Economic Activity, Trade L ysical Features of Natural R Refug		Links and the Distribution Resources	
Design and Technology	Structures	Textiles	Electrical Systems	Cooking and Nutrition	Mechanisms	Electrical Systems	
			Drawing a	nd Painting			
Art and Design	Collage						
Music	Composition Notation	South and West Africa	Blues	Composition to represent the Festival of Colour	Becoming	Composers	
PE	Cognitive Skills (Real PE) Athletics	Creative Skills (Real PE) Invasion Games	Social Skills (Real PE) Gymnastics	Physical Skills (Real PE) Striking and Fielding Games Outdoor Adventure	Health and Fitness (Real PE) Net and Wall Games Dance	Personal Skills (Real PE) Striking and Fielding Games Athletics Dance	
RE	Christianity – God Why is it sometimes difficult to do the right thing?	Christianity – Jesus What do we mean by a miracle?	Christianity – The Church How do people decide what to believe?	Islam Why is the Qur'an important to Muslims?	Judaism Do people need laws to guide them?	Hinduism What might Hindus learn from stories about Krishna?	
Languages	My school / Your school	Where I live / Where you live	Healthy Eating	My school / Your school	Where I live / Where you live	Healthy Eating	



Spoken Language

Throughout each year group, pupils will build on the oral language skills build in previous years at a level which is appropriate to their age. They will be encouraged to communicate effectively across a range of contexts and to a range of audiences. They will have opportunities to work in groups of different sizes – in pairs, small groups, large groups and as a whole class. Pupils will be encouraged to take turns and participate constructively in conversations and debates.

- listen and respond appropriately to adults and their peers
- ask relevant questions to extend their understanding and knowledge
- use relevant strategies to build their vocabulary
- articulate and justify answers, arguments and opinions
- give well-structured descriptions, explanations and narratives for different purposes, including for expressing feelings
- maintain attention and participate actively in collaborative conversations, staying on topic and initiating and responding to comments
- use spoken language to develop understanding through speculating, hypothesising, imagining and exploring ideas
- speak audibly and fluently with an increasing command of Standard English
- participate in discussions, presentations, performances, role play, improvisations and debates
- gain, maintain and monitor the interest of the listener(s)
- consider and evaluate different viewpoints, attending to and building on the contributions of others
- select and use appropriate registers for effective communication.

Reading

Throughout Year 5, pupils will have opportunities to read and enjoy listening to a range of quality fiction.

The reading spine books for Year 5, which will be read aloud throughout the year are:

FArTHER-Grahame Baker Smith

Kensuke's Kingdom – Michael Murpurgo

Stormbreaker

The poetry spine includes:

Refugee Poetry The Works 4 –Pie Corbett The Highwayman –Alfred Noyes

Reading

Pupils will be taught to:

- apply their growing knowledge of root words, prefixes and suffixes (morphology and etymology), both to read aloud and to understand the meaning of new words that they meet.
- maintain positive attitudes to reading and an understanding of what they read by:
 - continuing to read and discuss an increasingly wide range of fiction, poetry, plays, non-fiction and reference books or textbooks
 - reading books that are structured in different ways and reading for a range of purposes
 - increasing their familiarity with a wide range of books, including myths, legends and traditional stories, modern fiction, fiction from our literary heritage, and books from other cultures and traditions
 - recommending books that they have read to their peers, giving reasons for their choices
 - identifying and discussing themes and conventions in and across a wide range of writing
 - making comparisons within and across books
 - learning a wider range of poetry by heart
 - preparing poems and plays to read aloud and to perform, showing understanding through intonation, tone and volume so that the meaning is clear to an audience

Reading

understand what they read by:

- checking that the book makes sense to them, discussing their understanding and exploring the meaning of words in context
- asking questions to improve their understanding
- drawing inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence
- predicting what might happen from details stated and implied
- summarising the main ideas drawn from more than 1 paragraph, identifying key details that support the main ideas
- identifying how language, structure and presentation contribute to meaning
- discuss and evaluate how authors use language, including figurative language, considering the impact on the reader
- distinguish between statements of fact and opinion
- retrieve, record and present information from non-fiction
- participate in discussions about books that are read to them and those they can read for themselves, building on their own and others' ideas and challenging views courteously
- explain and discuss their understanding of what they have read, including through formal presentations and debates, maintaining a focus on the topic and using notes where necessary
- provide reasoned justifications for their views

Reading Across the Curriculum

Throughout Year 5, pupils' learning across the curriculum will be supported by a range of quality books including:

Autumn term The Maya Creation Story

Spring term

My Name is Not Refugee

Summer term

Theseus and the minotaur

During Year 5, pupils will write a range of genres. Particular focus will be placed on:

stories involving: a character with a flaw, a tale of rags to riches and a tale of fear

reports, persuasion and explanation.

Talk For writing Texts include:

A Boy in the Girls' Bathroom King Kong –Anthony Browne Traditional Tales

Writing

Pupils will be taught to:

- use further prefixes and suffixes and understand the guidance for adding them
- spell some words with 'silent' letters
- continue to distinguish between homophones and other words which are often confused
- use knowledge of morphology and etymology in spelling and understand that the spelling of some words needs to be learnt specifically
- use dictionaries to check the spelling and meaning of words
- use the first 3 or 4 letters of a word to check spelling, meaning or both of these in a dictionary
- use a thesaurus

write legibly, fluently and with increasing speed by:

- choosing which shape of a letter to use when given choices and deciding whether or not to join specific letters
- choosing the writing implement that is best suited for a task

Writing

plan their writing by:

- identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own
- noting and developing initial ideas, drawing on reading and research where necessary
- in writing narratives, considering how authors have developed characters and settings in what pupils have read, listened to or seen performed

draft and write by:

- selecting appropriate grammar and vocabulary, understanding how such choices can change and enhance meaning
- in narratives, describing settings, characters and atmosphere and integrating dialogue to convey character and advance the action
- précising longer passages
- using a wide range of devices to build cohesion within and across paragraphs
- using further organisational and presentational devices to structure text and to guide the reader [for example, headings, bullet points, underlining]

evaluate and edit by:

- assessing the effectiveness of their own and others' writing
- proposing changes to vocabulary, grammar and punctuation to enhance effects and clarify meaning
- ensuring the consistent and correct use of tense throughout a piece of writing
- ensuring correct subject and verb agreement when using singular and plural, distinguishing between the language of speech and writing and choosing the appropriate register
- proofread for spelling and punctuation errors

Writing

- perform their own compositions, using appropriate intonation, volume, and movement so that meaning is clear
- develop their understanding of vocabulary and grammatical concepts by:
 - recognising vocabulary and structures that are appropriate for formal speech and writing, including subjunctive forms
 - using passive verbs to affect the presentation of information in a sentence
 - using the perfect form of verbs to mark relationships of time and cause
 - using expanded noun phrases to convey complicated information concisely
 - using modal verbs or adverbs to indicate degrees of possibility
 - using relative clauses beginning with who, which, where, when, whose, that or with an implied (ie omitted) relative pronoun
 - learning the grammar for years 5 and 6 set out in Appendix 2 of the National Curriculum
- indicate grammatical and other features by:
 - using commas to clarify meaning or avoid ambiguity in writing
 - using hyphens to avoid ambiguity
 - using brackets, dashes or commas to indicate parenthesis
 - using semicolons, colons or dashes to mark boundaries between independent clauses
 - using a colon to introduce a list
 - punctuating bullet points consistently
- use and understand the grammatical terminology for Y5 and 6 accurately and appropriately in discussing their

writing and reading

PALS Objectives - Autumn

Writing is planned for and assessed using objectives from PALS files which break down Y5/6 National Curriculum objectives into Year groups and ensure progression through the year.

Y	'ear 5	Autumn – Working within
		Use a wider range of appropriate synonyms for nouns (using a dictionary/thesaurus) to aid cohesion, clarity and to avoid repetition e.g. dog, hound, Labrador, gundog.
	Nouns and Adjectives	Write expanded noun phrases for description by selecting from a wider range of adjectives (through the use of a dictionary/thesaurus) to aid cohesion, clarity and to avoid repetition e.g. the frightening guard dog, the glittering sports car.
	Noun Adjec	Write expanded noun phrases for description by using a range of preposition phrases to aid clarity. e.g. the black dog with white spots, the black dog in a red collar.
ulary		Write expanded noun phrases for specification using a wider range of more precise prepositions to aid clarity e.g. in front of, at the back of, at the side of, next to – the scary guard dog in front of the kennel.
Vocabulary	Verbs and Adverbs	Use a wider range of appropriate synonyms for verbs (using a dictionary/thesaurus) to aid cohesion, clarity and to avoid repetition e.g. strolled, sauntered, ambled.
Vo	ar Adv	Use Standard English for verbs, including subject-verb agreement e.g. they were studying not they was studying and modals in past tenses e.g. she should have won, or she should've won not she should of won.
	e s	Use appropriate pronouns within and across sentences to aid cohesion and avoid repetition of noun e.g. The witch looked at the boy. She gave him an apple. He ate it.
	cei	Use possessive pronouns to aid cohesion and avoid repetition e.g. The dog was hers. That bag is mine. The house is yours.
	Cohesive Devices	Use a greater range of adverbs or adverbials for time, number and addition to aid cohesion, clarity and avoid repetition e.g. All of a sudden, After a large lunch, Additionally, in Addition.
	ture	Use a range of sentence structures including simple sentences for effect and multi-clause sentences using co-ordination conjunctions e.g. and, so, but, or.
	Sentence Structure	Use subordination (relative clause) – using 'who', 'that' or 'which' in relative clauses embedded within the main clauses e.g. The house, which was dark and spooky, stood at the bottom of the lane.
	tenc	Use Subordination (relative Clause) - using 'whose' as a relative pronoun to show possession e.g. She knew the family whose house we bought.
JCe	Sent	Use subordination – writing sentences with two subordinate clauses and a main clause, e.g. when I got up, I make my breakfast because my mum was asleep. I was happy when he arrived although he was very late.
ter	<u></u>	Use the full range of punctuation taught at KS1 correctly – capital letters, full stops, question marks, commas for lists and apostrophes.
Sentence	ion	Use commas to separate embedded relative clauses using 'who', 'that', which' e.g. The house, which was dark and spooky, stood at the bottom of the lane.
	Punctuation	Use apostrophes to show contraction in verb forms including positive, negative and modals and to ensure Standard English e.g. he should've not should of.
	Pur	Use apostrophes to show possession for both singular and plural nouns (including collective nouns).
	50:	Use inverted commas (speech marks) and other forms of punctuation in dialogue where the reporting clause is in the middle of sentences spoken by the same speaker e.g. "look at me!" said Jenny. "I am on the roof!"

PALS Objectives - Autumn

12	Read and discuss similar writing to understand and learn from structure, vocabulary, grammar, form, audience and purpose.
Ces	Develop initial ideas on own plan through discussion with teacher/peers and reading similar writing
20	Evaluate the structure, grammar, vocabulary and punctuation of own and others; writing for sense and effectiveness.
riting	Edit by suggesting improvements and making changes to grammar, vocabulary and punctuation to clarify meaning.
Vritti	Proof read for spelling and punctuation errors.
>	Read aloud own writing using appropriate intonation and controlling volume and tone so that the meaning is clear.
-	Write a range of chronological texts in a variety of different forms e.g. recounts – newspaper report, biography, auto-biography, instructions – care-leaflet.
rafive	Write a range of non-chronological texts in a variety of different forms e.g. reports; explanations- scientific phenomena; persuasive texts – letter discussions (balanced arguments).
Nar	Use a greater range of cohesive devices to make links across the text e.g. pronouns, adverbs, adverbial phrases tense choices.
5	Use relevant and appropriate description of subject matter to inform and engage the identified audience including personal viewpoint when relevant
	Write a range of chronological texts in a variety of different forms e.g. recounts - newspaper report, biography, auto-biography, instructions - care-leaflet
Fiction	Write a range of non-chronological texts in a variety of different forms e.g. reports; explanations- scientific phenomena; persuasive texts – letter; discussions (balanced arguments)
5	Use a greater range of cohesive devices to make links across the text e.g. pronouns, adverbs, adverbial phrases tense choices.
Z	Use relevant and appropriate description of subject matter to inform and engage the identified audience including personal viewpoint when relevant

PALS Objectives - Spring

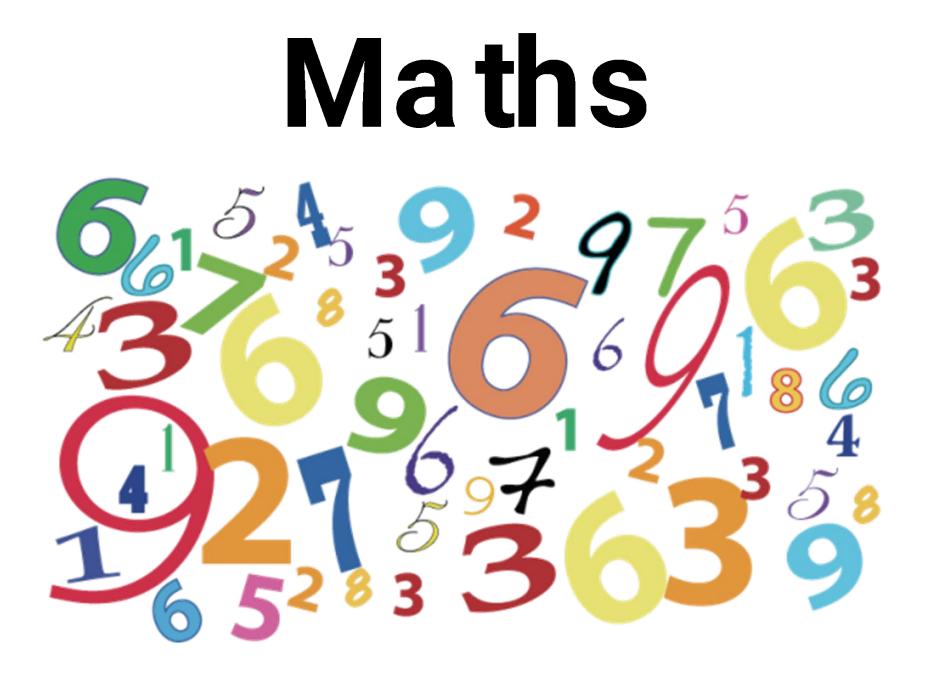
Year 5		Spring - Focussing				
	Norm and Adjective	Select a wider range of appropriate determiners (e.g. articles, possessives, quantifiers, demonstratives) choosing synonyms for clarity, emphasis and to avoid repetition e.g. every child, each child, all children.				
	- 3	Select comparatives and superlatives to aid cohesion/clarity, avoid repetition e.g. nastier, angriest - the angriest man in town.				
lary	and bis	Use a variety of tenses correctly in a range of text types: simple past, past progressive, simple present, present progressive, future, imperative, present perfect past perfect, present perfect progressive e.g. He has been working for a while.				
Vocabulary	Verbs and Adverbs	Select appropriate modal verbs to indicate degrees of possibility e.g. might, could, should, must, will and strong suggestion e.g. should, shouldn't, choosing when to contract or not, depending on formality of language e.g. The council will not empty the bins. I won't do that.				
ŏ		Use adverbial phrases for manner (how) by modifying the adverb with another adverb e.g. very quickly, extremely fast				
	Cohestive Devices	Use a greater range of adverbs or adverbials for emphasis, to aid cohesion, clarity and avoid repetition e.g. Actually, In actual fact.				
	ŝ.	Use subordination for cause using a greater range of conjunctions to avoid repetition e.g. because/as.				
	ture	Use subordination for comparison or concession e.g. although, even though – He is tall although his parents are short. I am going out even though it is raining.				
Sentence	Sentence Structure	Use subordination (relative clause) – using "where", "when as relative pronouns to give more information about the noun e.g. This is the house where I grew up. That was the day when he broke his leg.				
ŧ		The relative pronoun in an embedded relative clause e.g. The man, covered with mud, staggered into the room.				
Se	aton	Use commas to clarify meaning and avoid ambiguity, e.g. Stop hitting, Joe instead of Stop hitting Joe.				
	12	Use a colon after an independent introductory main clause to introduce a list of nouns separated by commas e.g. The milkshake includes a				

PALS Objectives - Spring

		Discuss and identify the purpose and audience for own writing in a given form.
	ses	Plan own writing for the identified audience and purpose (using discussion and similar writing/planning as models) by organising initial ideas on o planning format.
3	g Proc	Follow own plan to organise, draft and write each paragraph, composing sentences, selecting appropriate grammar and vocabulary and making improvements before writing.
=	Writtin	Edit to ensure consistent and correct use of tenses and correct subject and verb agreement for Standard English.
₽	3	Edit to ensure appropriate level of formality (register.) by making changes to structure, grammar, vocabulary and punctuation.
ŝ		Perform own compositions to group/class, using appropriate intonation, volume and movement so that the meaning is clear
Composition	e	Include descriptions of settings, atmosphere, action, character, characters feelings and author's viewpoint to advance the narrative.
Ŭ	Narrat	Include dialogue to convey character and /or advance the action.
	Non- Fiction	Write introductions to orientate, introduce and engage the reader including personal viewpoint where appropriate.
		Write conclusion to sum up, evaluate or advise, including a clear link back to the introduction and personal viewpoint where appropriate.

PALS Objectives - Summer

Yeo	ar 5	Summer - Securing					
	Nouns and Adjective	Modify or intensify adjectives using a greater range of adverbs e.g. incredibly, always, sometimes, the incredibly scary dog – The dog is alw scary.					
Vocabulary	Verbs and Adverbs	Use a wider range of appropriate adverbial phrases for place (using dictionary/thesaurus) to aid cohesion, clarity and to avoid repetition e.g. under the sea, below the waves, beneath the surface of the ocean.					
š	Conner 1	Use a greater range of adverbs or adverbials for cause to aid cohesion, clarity and avoid repetition e.g. Consequently, As a result.					
	e lo	Use a greater range of adverbs or adverbials for opposition to aid cohesion, clarity and avoid repetition e.g. Nevertheless, on the other hand.					
	Sentence Structure	Use adverbs to indicate degrees of possibility e.g. maybe, perhaps, surely.					
_	Ser	Vary the position of adverbs and adverbial phrases in the sentence for emphasis and effect e.g. At the end of the garden, there was a large statue. Consequently, the plan failed. He quickly ran to the shop. It is very good value, in actual fact.					
	8 g	Use subordination for time using a greater range on conjunctions to avoid repetition e.g. as, since, as soon as – I watched TV as I ate my supper I have played golf since I was six.					
a	Sentence Structure	Use subordination – varying order of clauses to emphasise meaning by moving subordinate clauses to the beginning of sentences e.g. Although he wasn't fired he went to bed. Unless it stops raining, we are staying inside.					
Sentence	Se	Use subordination – using 'that' following verbs for thinking, feeling and speaking e.g. He believed that the world was flat. He worried that she would not come. He said that the game was over.					
Sen	Punctuation	Indicate parenthesis of phrases or words with brackets, dashes or commas e.g. Mr Smith (our grumpy next door neighbour) haves children. Our neighbour – Joe – mows his lawn every Sunday, My neighbour, Mr Smith hates children.					
	B 2	Evaluate the grammar, vocabulary and punctuation for appropriate level of formality (register) for the audience, purpose and style of writing.					
-	Wrifing Process	When discussing writing, recognise and use terminology from previous years and Y5: modal verb, relative clause; parenthesis, bracket, dash; cohesion, ambiguity.					
itio	2	Organise and develop whole narratives with well-balanced paragraphs to engage the reader.					
Composition	Namative	Use a greater range of cohesive devices to make links across the narrative e.g. pronouns, adverbs, adverbial phrases, tense choices					
	Non- Fiction	Write simple hybrid texts with more than one purpose by incorporating a section or paragraph e.g. non-chronological report with a persuasive paragraph.					
	Non Fictio	Use appropriate organisation and features of the text type to balance the content; suit the purpose and form of the next type and engage the reader e.g. discussions – evenly balanced paragraphs; instructions – heading, bullet points, underlining.					



Throughout Year 5 pupils will:

- develop mathematical fluency and conceptual understanding in increasingly complex problems
- recall and apply knowledge rapidly and accurately
- reason mathematically, recognise and describe relationships and use correct mathematical vocabulary to prove their findings
- solve a wide range of increasingly complex problems both routine and non-routine
- use efficient written and mental methods of calculation
- break problems down into a series of manageable steps
- persevere to find solutions
- make connections between multiplication and division with fractions, decimals, percentages and ratio.
- extend their understanding of the number system and place value to include larger integers
- Be introduced to the language of algebra as a means for solving a variety of problems
- read, spell and pronounce mathematical vocabulary correctly

Pupils will be taught to:

- read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
- count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
- interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
- round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000
- · solve number problems and practical problems that involve all of the above
- read Roman numerals to 1000 (M) and recognise years written in Roman numerals.
- add and subtract whole numbers with more than 4 digits, including using formal
- written methods (columnar addition and subtraction)
- add and subtract numbers mentally with increasingly large numbers
- use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

- identify multiples and factors, including finding all factor pairs of a number, and
- common factors of two numbers
- know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers
- establish whether a number up to 100 is prime and recall prime numbers up to 19
- multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
- multiply and divide numbers mentally drawing upon known facts
- divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
- multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

- · compare and order fractions whose denominators are all multiples of the same
- number
- identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]
- add and subtract fractions with the same denominator and denominators that are multiples of the same
 number
- multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
- read and write decimal numbers as fractions [for example, 0.71 = $\frac{71}{100}$]
- recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- · round decimals with two decimal places to the nearest whole number and to one decimal place
- read, write, order and compare numbers with up to three decimal places
- solve problems involving number up to three decimal places
- recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
- solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.

Measurement

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- convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre; gram and kilogram; litre and millilitre)
- understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
- measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
- calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes
- estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]
- solve problems involving converting between units of time
- use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.

Geometry

- identify 3-D shapes, including cubes and other cuboids, from 2-D representations
- know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
- draw given angles, and measure them in degrees (°)
- identify: angles at a point and one whole turn (total 360°)
- angles at a point on a straight line and a turn (total 180°) \Box other multiples of 90°
- use the properties of rectangles to deduce related facts and find missing lengths and angles
- distinguish between regular and irregular polygons based on reasoning about equal sides and angles.

Statistics

- solve comparison, sum and difference problems using information presented in a line graph
- complete, read and interpret information in tables, including timetables

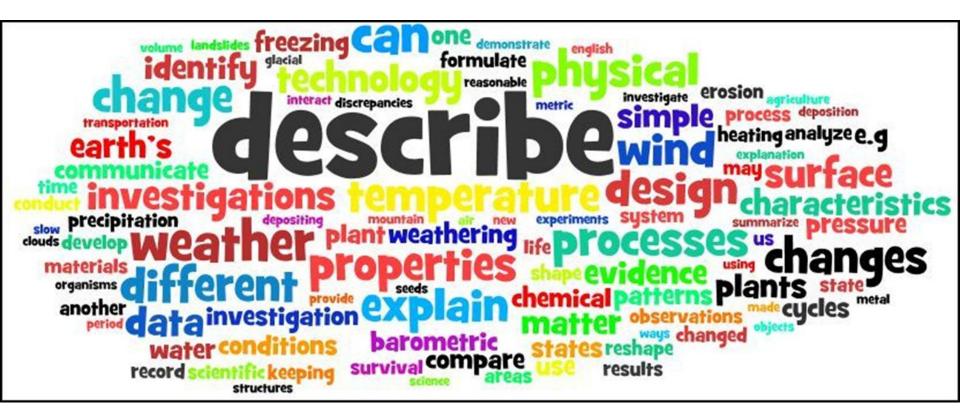
The long term plan for maths in Year 5 ensures full coverage of the National Curriculum.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Nur	Number: Place Value Subtraction			Numb	er: Mult Divi	iplicatio sion	on and	Number - Reasoning		ables	
Spring		Number: Fractions			Numb	er: Dec	imals		easures: centage		Position and movement	
Summer	1	Measurement Converting units Area and Perimete		1.00 M (1.00 M)	Meas volu		Number: Roman	Reaso	oning		is and	

Pupils are assessed throughout the year to determine whether they are on track to achieve Age Related Expectations at the end of the Year.

Year 5 ARE	Working within	Pocualing	Securing	
Number and the number system	Estimate numbers and guentifies to 10.000, identify square numbers and use natation of find gain of factors for any number to 100. Order a set of gastifive/negative integers. Receigns: prime numbers to galacet 20. Recei Roman numerals to 1000 (W) Compare and order fractions where denominators are multiples of same number Identify, name and write equivation fractions of a given fraction, represented visually and inducing forths and hundredfra Receignize the percent symbol 5, understand that Sils number of garts ger 100	Interpret negative numbers in context Round any number up to 1 000 000 to the nearest 10, 100, 1000, 8	Read, write, order and isompare numbers to 1,000,000 Court forwards / backwards in steps of gewics of 10 for any number up to 1,000 00 Reading years written in Romen numerols. Convert mised numbers and ingreger fractions i go $3(4 + 3) = 4/5 = -1.3)$. Receiptise and use thousaneths and relate to doctinal eguivalents. Identity multiples and factors, finding all factor gains of a number and common factors of his numbers Receiptics and use cube numbers, use notation inf	
Calculation	Use efficient withen standard methods of addition and subtraction Add and subtract decimals to 2 glases. Calculate mentally with increasingly large numbers drawing on known facts Add and subtract incotions with the same denominator and multiples of the same number	Add and subtrast whole numbers with more than 4 digits using formal columnar written methods 3 and 4 whole numbers and these involving doctings by 10, 100 and 1000 Use rounding to shade answer to obsublic as the docting problems, check reasonableness of enswer with reference to context or size of numbers.	Multiply numbers up to 4 slight by a one or two-sligh numbers using formal written methods of short or long multiplication. Divide numbers up to 4 slight by a pro- digit number using the formal written method of short division and interpret remainders appropriately. Multiply proper fractions and mised numbers by whole numbers, suggested by materials and diagrams Coloulate paraontages of guantities and measures.	
Problem solving	Solve 4 ggg, multi-stop problems in centext, decising which operations and matrices to use and why. Solve number and practices problems invoking number to 1 000 000 up the Satp	Selve problems involving multiplication and division where larger numbers are used by decomposing them into their labelon. Selve problems involving measure using declined netration including scaling. Use appropriate ways of calculating, mental, mantal with jottings or withon methods.	Solve problems regulting knowing percentage and decimal aguivalents of %, %, %, %, %, 26, 4/3 and these with a denominator of a multiple of 10 or 25. Solve problems involving a and 4 inducting scaling by simple fractions Explain a generalized relationship (termula) in words	
Mecaurement	Choose and use a variety of units and measuring instruments, reading and appropriately interpreting scales. Measure and calculate the gerimeter of composite readilinear shapes in om and m	Solve problems involving converting between units of time Calculate and compare the area of injuares and restangles using square continuences (cm ²) and square matrics (m ²) and calimate the area of integular shapes	Convert between different units of measure (e.g. km and m; m and em; em and mm; kg and g: I and mi(Understand and use equivalences between matrix units and common imperial units op: loades , pounds and gints. Estimate volume and appecity: op using 1 cm ⁶ blocks and water	
Geometry	Use properties of restangles to deduce related facts and find missing lengths and angles. Know angles are measured in degrees; estimate and compare acute, situate and reflex angles. Classify therefore, angles. Make 3D methometical models. Receignise where a shape will be after translation.	Identify 3-D shapes, including cubes and outdids, from 3-D regressionations Identify, describe and regression fine gestion of a shape following a reflection or translation, know that the shape has not changed Use a prefractor to measure ocuts and defuse angles -nearest 5'.	Distinguish between regular and irregular polygons, reasoning about equal sides and angles. Draw given angles and measure from in degrees (*) Identity- angles at a point and one whole ium (total 350*) angles at a point on a streight line and % a tum (total 180*) other multiples of 90	
Siafatica	Bogin to read and interpret intermetion in tables, including timetables, Use and interpret ac-archites in the flat guadrant	Construct and interpret time graphs Read and interpret data presented in a line graph. Understood and use the mean of a set of data.	Salva somgatisan, sum and all'aranas grabiants using information presented in a line graph. Complete, read and intergret information in tables, including timetables. Group data in agual intervals.	

SCIENCE



The National Curriculum specifies the content of each year group's science curriculum. Throughout Year 5, Pupils will:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- develop the scientific knowledge required to understand the uses and implications of science, today and for the future
- describe associated processes and key characteristics in common language, and be familiar with, and use, technical terminology accurately and precisely
- build up an extended specialist vocabulary
- apply their mathematical knowledge to their understanding of science, including collecting, presenting and analysing data
- work scientifically within the contexts of biology, chemistry and physics
- use a variety of approaches of approaches to answer scientific questions including: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources

Science is taught through project work wherever possible, but is often covered as a series of discrete lessons and is organised across the year in Year 5 as follows.

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Earth and Space	arth and Space Forces Pro		d Changes in erials	Living Things and Their Habitats	Animals Including Humans

Animals Including Humans

Pupils will:

• describe the changes as humans develop to old age..

Living Things and Their Habitats

Pupils will:

- describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- describe the life process of reproduction in some plants and animals.

Properties and Changes in Materials

Pupils will:

- compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
- know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
- use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating
- give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
- demonstrate that dissolving, mixing and changes of state are reversible changes
- explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.

Earth and Space

Pupils will:

- describe the movement of the Earth, and other planets, relative to the Sun in the solar system
- describe the movement of the Moon relative to the Earth
- describe the Sun, Earth and Moon as approximately spherical bodies
- use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky

Forces

Pupils will:

- explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- identify the effects of air resistance, water resistance and friction, that act between moving surfaces
- recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.



Whilst opportunities for the development of SMSC are incorporated into all aspects of school life, there are many areas of the curriculum that are designed to specifically address different elements of Social, Moral, Spiritual and Cultural education:

Social Development:	Moral Development:	Spiritual Development:	Cultural Development:
 Exercise leadership and responsibility Work successfully as a member of a group or a team Work co-operatively Use a range of social 	 Express views in an open and safe learning environment Develop the desire to explore my own and others' views 	 Reflect on own experiences, and learn from reflection Enjoy learning, and be fascinated by the world around us Develop an 	Create project Participate in literature, drama, music, art, crafts, and other cultural events. Develop a sense of
skills in different contexts	Explore project	appreciation of the intangible	personal enrichment through encounters with
BIG ISSUES through Explore project	 Develop a willingness to express views on ethical issues 	 Ask questions and be curious – 'why?', 'How?', 'Where?' 	cultural media and traditions from a range of cultures
 Reflect on my contribution to society and to the world of work 	 Develop an ability to make responsible and reasoned judgements on 	 Develop a sense of empathy with others, concern and 	 Develop a willingness to participate in, and respond to, artist and
 Appreciate the rights and responsibilities of individuals 	 moral dilemmas Develop the ability to think through the 	 compassion Develop a respect for insight as well as for 	 cultural enterprises Pupils' understanding and appreciation of the
Recognise and respect social differences	consequences of my own and others' actions	 knowledge and reason Understand feeling and 	wider range of cultural influences that have
 Challenge the values of a group or wider community 		 emotions Use imagination and creativity in their 	shaped their own heritage and that of others
 Foster a sense of community, with common, inclusive values 		learning) • Develop an expressive and creative impulse • Have space for their	
Understand and debate social issues		own thoughts, ideas and concerns	



- Listen to and understand the main points and some detail from a short spoken passage.
- Give a presentation in a clear audible voice.
- Converse briefly without prompts.
- Enjoy listening and speaking confidently.
- Read aloud with confidence, enjoyment and expression, in chorus or individually.
- Read and understand the main points and some detail from a short written passage.
- Write several sentences from memory.
- Develop a short text using a model.
- Demonstrate understanding of and respect for cultural diversity.
- Present information about an aspect of another country.
- Create spoken and written language using simple sentences.
- Use a dictionary/ICT resource to look up spellings.
- Discuss with a friend and devise role-plays.
- Plan and prepare themselves for a language activity.

Autumn Term



Throughout this term children will:

- Plan and research
- Analyse and evaluate
- Explore issues, events and problems from different perspectives
- Support conclusions using reasoned arguments and evidence
- Show empathy
- Show a commitment to fairness
- Communicate learning in relevant ways
- Work towards a goal

History: Who were The Mayans?

Historical Enquiry

- Begin to identify primary and secondary sources
- Use the evidence collected to build up a picture of life for the Mayans

Historical Knowledge

• Describe different aspects of the lives of different people

Chronology

- Use dates and vocabulary related to the passing of time such as: modern, ancient, BC, century, decade (ongoing)
- Place events, people and changes into correct periods of time

Historical Interpretation

• How some understanding that aspects of the past have been represented and interpreted in different ways

Art and Design

Exploring and Evaluating

- Explore the roles and purposes of artists, craftspeople and designers working in different times and cultures
- Compare ideas, methods and approaches in their own and others' work and say what they think and how they feel about them (ongoing)
- Keep notes in their sketchbooks as to how they might develop their work further (ongoing)

Collage

- Add collage to a painted, printed or drawn background
- Use a range of media to create collages
- Experiment with a range of collage techniques such as tearing, overlapping and layering
- Use different techniques, colours and textures when designing and making pieces of work

Design Technology

Design

• Create a design, considering the main components required and creating an appropriate template

Make

- Measure, mark and cut fabric accurately and independently
- Sew a strong and secure blanket stitch when joining fabric
- Thread a needle independently
- Independently mark and measure wood
- Select appropriate tools and equipment for a task
- Use a saw correctly using safe techniques

Evaluate

- Test and evaluate an end product
- Adapt and improve own product by identifying points of weakness

Technical Knowledge

• Understand the difference between arch, beam, truss and suspension bridges

Computing

Computing Networks/Programming

- Search websites efficiently.
- Know how to check information for accuracy.
- Develop online research skills.
- Create an informative poster using online software.
- Explore the role of web crawlers and a web index.
- Tinker with Sonic Pi and explore its capabilities.
- Create a piece of music using programming skills.
- Compose music soundtrack using online software.
- Introduce repeating loops into soundtrack.
- Adapt musical code whilst performing.

Online Safety

- To know the differences between online and offline bullying.
- Learn how online technology can effect our mental health.

Music

Performing

- Sing with accuracy, fluency, control, and expression
- Sing a traditional African song unaccompanied, holding the tune and using expression
- Use tuned percussion to play a piece of music with a major chord and two chord progressions with accuracy
- With support use vocals or tuned percussion to perform a piece of music as an ensemble
- Play call and response rhythms using percussion instruments

Composing

- Explore and use different forms of notation
- Begin to read simple pitch notation
- Use hieroglyphs and stave notation to write a piece of music
- Create an eight beat break to play within a performance

Listening and Applying

• Develop their understanding of note length

Expressing and communicating ideas related to religious and worldviews

Shared Human Experiences (ongoing)

- Discuss where people might look for guidance during their life
- Discuss when and why people might look for guidance

The Search for Personal Meaning (ongoing)

- Consider the value of differing sources of guidance
- Raise meaningful questions

Christianity (God)

- Retell the teachings from Genesis 3 of how Adam and Eve disobeyed God
- Discuss the Lord's Prayer and what guidance it provides for Christians

Christianity (Jesus)

- Retell a miracle story and explain what it reveals to the nature of Jesus to Christians
- Suggest things that might lead Christians into temptation in the modern world and how and why they might resist

Being in My World

Celebrating Difference

- I can explain the differences between direct and indirect types of bullying
- I know some ways to encourage children who use bullying behaviours to make other choices and know how to support children who are being bullied

Knowledge and Understanding – Fitness and Health – ongoing throughout the year

- Explain and apply basic safety principles in preparing for exercise.
- Describe what effects exercise has on the body and how it is valuable to fitness and health.

Athletics

- Be able to suggest ways to warm up and cool down that suit the activity.
- Explain the effects of exercise on the body, being specific about the benefits particular systems and organs

Games

- I can control and catch a ball & accurately pass whilst moving
- I can apply tactics and rules to a range of games ongoing throughout the year
- I can use a range of techniques when passing, eg high, low, bounced, fast, slow ongoing throughout the year

Cognitive Skill (Real PE)

- I can develop methods to outwit opponents.
- I can recognise and suggest patterns of play which will increase chances of success.
- I have a clear idea of how to develop my own and others' work.

Creative Skill (Real PE)

- I can respond imaginatively to different situations
- I can adapt my skills, movements or tactics so they are different from or in contrast to others.

Spring Term



Throughout this term, pupils will:

- Recognise our roles as Global citizens
- Recognise that we can impact our environment and community
- Show a commitment to fairness
- Show empathy
- Analyse and evaluate
- Communicate learning in relevant ways
- Work towards a goal

History: What happened to the Mayans?

Historical Enquiry

• Select and combine relevant information from different sources

Historical Knowledge

- Examine causes and results of events and the impact on people
- Know how the Mayan civilisation compares to British history

Chronology

- Make comparisons between different times
- Use dates and vocabulary related to the passing of time such as: modern, ancient, BC, century, decade (ongoing)

Historical Interpretation

- Identify and describe reasons for and results of historical events, situations and changes within and across different periods
- Give reasons for and results of the main changes and events in a non-European society (the Mayans)

Geography: What will I find across the Atlantic Ocean?

Locational Knowledge

- Use maps and globes to locate states and countries of North and South America and some major cities major cities.
- Identify environmental regions and key human and physical features of countries in North and South America
- Identify the position and significance of the Equator, Northern Hemisphere and Southern Hemisphere
- Identify the position and significance of the Tropics of Cancer and Capricorn.
- Identify the position and significance of the Prime/Greenwich Meridian and time zones (including day and night)

Geographical Skills and Fieldwork

- use atlases , globes and digital mapping to locate North and South America and their features
- use the eight-points of a compass, symbols and keys to build knowledge of North and South America
- communicate geographical information through writing at length (ongoing)

Design Technology

Design

• Place and manoeuvre 3D objects using CAD

Technical Knowledge

• Understand that a device means equipment created for a certain purpose or job

Cooking and Nutrition

- Adapt a traditional recipe
- Understand that nutritional value changes when things are added or removed
- Identify the nutritional difference between different products
- Talk about where food comes from

Exploring and Evaluating – ongoing throughout the year

- Explore the roles and purposes of artists, craftspeople and designers working in different times and cultures
- Compare ideas, methods and approaches in their own and others' work and say what they think and how they feel about them
- · Keep notes in their sketchbooks as to how they might develop their work further

Drawing

- Work from a variety of sources developing close observation skills
- Use different marks, lines, patterns and shapes within a drawing
- Successfully use shading to create mood and feeling
- Organise line tone, shape and colour to represent figure and forms in movement
- Explore colour mixing and blending with different pencils

Music

Performing

- Play the first line of the 12-bar Blues
- Play the 12-bar Blues
- Play the Blues scale
- Improvise with notes from the Blues scale
- With support and direction begin to play and perform in both solo and ensemble contexts.
- Start to play musical instruments with some degree of accuracy, fluency, control and expression

Composing

• Represent the features of a piece of music using graphic notation, and colours, justifying choices using musical language

Appraising

• Recognise and discuss the stylistic features of different genres, styles and traditions of music using musical vocabulary

Listening and applying

• Know the key features of Blues music

Computing

Data Handling/Programming

- Understand that information has to travle in order to be sent and received.
- Translate data into binary code.
- Identify what Random Access Memory is.
- Use binary to carry out calculations.
- Use binary to create messages.
- Use basic features of BBC micro:bit.
- Use BBC micro:bit to create a polling programme.
- Turn BBC micro:bit into a pedometer.

Online Safety

• Learn how to alter app permissions.

Expressing and communicating ideas related to religious and worldviews

Shared Human Experiences (ongoing)

- Discuss where people might look for guidance during their life
- Discuss when and why people might look for guidance

The Search for Personal Meaning (ongoing)

- Consider the value of differing sources of guidance
- Raise meaningful questions

Christianity (The Church)

- Identify the Christian beliefs in the Apostle's Creed
- Discuss how symbols might unite the worldwide church

Islam

- Discuss Muslim's beliefs about the Qur'an as the word of God delivered by the Prophet Muhammad (pbuh)
- Explain a variety of ways that Muslims might show respect for the Qur'an and how this shows their respect for God

PSHE

Dreams and Goals

- I can compare the dreams and goals of a young person from another culture with my own
- I can reflect on how these dreams and goals relate to my own

Healthy Me

- I can describe the different roles food can play in people's lives and can explain how people can develop eating problems (disorders) relating to body image pressures
- I know the health risks of smoking and alcohol and can tell you how tobacco and alcohol affects the lungs, liver and heart
- I can make an informed decision about whether or not I choose to drink alcohol or smoke tobacco and know how to resist pressure
- I know and can put into practice basic emergency aid procedures (including recovery position) and know how to get help in emergency situations

Knowledge and Understanding – Fitness and Health – ongoing throughout the year

- Be able to suggest ways to warm up and cool down that suit the activity.
- Explain the effects of exercise on the body, being specific about the benefits particular systems and organs

Games

- I can apply tactics and rules to a range of games (ongoing)
- I can use a range of techniques when passing, eg high, low, bounced, fast, slow (ongoing)
- I can strike a ball with intent and throw it more accurately when bowling and/or fielding

Gymnastics

- I can perform a range of rolls including backwards roll consistently.
- I can develop a longer and more varied movement sequence demonstrating smooth transitions between actions
- I can work with a partner to make up a short sequence using the floor, mats and apparatus, showing consistency, fluency and clarity of movement

Outdoor Adventure

- I can plan and organise a simple orienteering trail using a variety of map reading and compass skills
- I can apply the skills and safety requirements for survival in an outdoor environment

Social Skills (Real Gym)

- I can negotiate and collaborate appropriately
- I can give and receive sensitive feedback to improve myself and others.

Physical Skills (Real PE)

- I can perform a range of skills fluently and accurately in practice situations.
- I can use a combination of skills confidently in sport specific contexts.

Summer Term



- Show flexibility
- Organise time and resources
- Adapt ideas as circumstances change
- Be creative
- Explore different ways of expression
- Communicate learning in relevant ways
- Work towards a goal

Historical Enquiry

• Use evidence collected to build up a picture of life in Ancient Greece

Historical Knowledge

- Know about Ancient Greek life and achievements and their influence on the western world
- Identify features of Greek architecture and its influence on architecture in Britain today

Chronology

• Use dates and vocabulary related to the passing of time such as: modern, ancient, BC, century, decade (ongoing)

Historical Interpretation

• Give reasons for and results of the main changes and events in Ancient Greece

Geography: Why do people want to live in America?

Place Knowledge

• Understand geographical similarities and differences through the comparison of human and physical features of the North West region of the UK and a region in North or South America

Human and Physical Geography

- Describe types of settlement and land use in North and South America
- Describe and understand economic activity and trade links in North or South America
- Describe and understand the distribution of natural resources including energy, food and minerals.

Geographical Skills and Fieldwork

- Communicate geographical information through the collection and interpretation of numerical information
- Communicate geographical information through writing at length (ongoing)

Art and Design

Exploring and Evaluating

- Explore the roles and purposes of artists, craftspeople and designers working in different times and cultures (**ongoing**)
- Compare ideas, methods and approaches in their own and others' work and say what they think and how they feel about them (**ongoing**)
- Keep notes in their sketchbooks as to how they might develop their work further (ongoing)
- Explore the roles and purposes of architects working in different times and cultures

Painting and Mixed Media

- Try a variety of materials and compositions for the backgrounds of drawings.
- · Create a successful print.
- Experiment with materials and techniques when adapting photo portraits.
- · Create a self-portrait that aims to represent something about them.
- Combining a wider range of media, e.g. photography and digital art effects.
- Applying paint with control in different ways to achieve different effects, experimenting with techniques used by other artists and applying ideas to their own artworks

Design Technology

Design

- Create a design using both structures and mechanisms
- Investigate existing products and create a design criteria from own findings

Make

- Create mechanisms using sliders, pivots and folds to produce movement
- Make a functional series circuit, incorporating a motor

Evaluate

- Evaluate the work of others and accept feedback on own work
- Carry out a product analysis to look at the purpose of a product along with its strengths and weaknesses

Technical Knowledge

• Understand that mechanisms can be used to change one kind of motion into another

Music

Performing

- Perform a looped body percussion rhythm; keeping in time with their group.
- Choose a suitable fragment of music and be able to play it along to the backbeat.
- Perform a piece with some structure and two different loops.

Composing

- To know that a loop is a repeated rhythm or melody, and is another word for ostinato
- Use loops to create a whole piece of music, ensuring that the different aspects of music work together.

Knowledge and Understanding – Fitness and Health – ongoing throughout the year

- Be able to suggest ways to warm up and cool down that suit the activity.
- Explain the effects of exercise on the body, being specific about the benefits particular systems and organs

Dance

- I can respond to a range of stimuli, improvising freely using a range of controlled movements and patterns
- Create dances using a range of movement patterns from different styles of dance.

Games

• I can play recognised version of net game showing tactical awareness and knowledge of rules and scoring – ongoing throughout the year.

Health and Fitness (Real Dance)

• When planning an activity, I can identify possible dangers to me and possible dangers in the space

Personal Skills

- See all new challenges as opportunities to learn and develop
- Recognise my strengths and weaknesses and can set myself appropriate targets

Computing

Creating Media/Skills Showcase

- Explore original forms of animation and create one.
- Create own stop motion animation.
- Decompose animation using a storyboard.
- Edit and evaluate animations using a range of features taught.
- Identify ad create a pixel.
- Design a tyre using online 3D software.
- Learn how images can be compressed.

Online Safety

• Understand how to be respectful online.

Expressing and communicating ideas related to religious and worldviews

Shared Human Experiences (ongoing)

- Discuss where people might look for guidance during their life
- Discuss when and why people might look for guidance

The Search for Personal Meaning (ongoing)

- Consider the value of differing sources of guidance
- Raise meaningful questions

Judaism

- Explain why the Torah is important to Jewish people and how it shows guidance
- Discuss the role of the Synagogue

Hinduism

- Explain Hindu beliefs about Krishna
- Talk about the Hindu festival of Holi

PSHE

Relationships

- I can explain in some detail how to stay safe when using technology to communicate with my friends
- I can recognise and resist pressures to use technology in ways that may be risky or cause harm to myself or others

Changing Me

- I can describe how girls' and boys' bodies change during puberty
- I can express how I feel about these changes that will happen to me during puberty