Curriculum Overview Year 5

	Autumn 1 st	Autumn 2 nd	Spring 1 st	Spring 2 nd	Summer 1 st	Summer 2 nd
Visits/visitors			Science museum sleepover?	Science museum sleepover?	Dunwich fieldwork trip Wk beg	Duxford wk beg 7/11/16
Presentation of learning	Newspaper article to be sent home.	Science experiment set up and carried out with parent.	Art exhibition of drawings.	Buggy exhibition to Year 6.	Perform compositions to Year 3.	Walk through the Ancient Greek time with Year 4.
Maths (see White Rose Maths Hub for more details)	Number - Place Value Number - Addition and Subtraction	Number - Multiplication and division Statistics	Number - Fractions	Number - Decimals Number - Percentages	Geometry - Angles Geometry - shapes Geometry - Position and direction	Measurements – Converting units Number – Prime numbers Perimeter and Area Measurement – Volume
	Poetry - Choral or performance poems (2 weeks)	Fables, myths or legends (Mayans) (5-6 weeks)	Highwayman Poetry – Narrative poems using metaphor. (4 weeks)	The Kingdom Revealed - Rob Ryan (5-6 weeks)	The Matchbox Diary - Paul Fleischman (4-5 weeks)	Rose Blanche – Roberto Innocent (5-6 weeks)
English	Chronological reports aligned to volcanoes. (4 weeks)	Text types to be covered: Narrative - Style - Stories using dramatic conventions Persuasion	Instructions (2 weeks) – linked to DT and buggy (hot task Spring 2). Procedural texts	Text types to be covered: Narrative - Settings - Character changing throughout the story.	Text types to be covered: Narrative - Characterisation Recounts Poetry - Poems with word	Guided reading - The amazing Maurice and his educated rodents.
	Guided Reading - Charlie and the chocolate factory	Guided reading -	Guided reading -	Guided reading - Varjak Paw	play, rhyme. Guided reading – Kensuke's Kingdom	
	Alan Peat: 3-ed 2 pairs Noun, which/who/where	Alan Peat: Many questions 2A 2 pairs	Alan Peat: Simile Emotion word (comma) Double ly ending	Alan Peat: Personification of weather P.C.	Alan Peat: BOYS 2A Irony	Alan Peat: Imagine 3 examples: 3 bad-(dash) question?
Grammar, Punctuation	Ad, same ad All the W's -ing, -ed	De:De Verb, person Some; others	List The more, the more Short	If, if, if, then Punctuation: Quotation marks.	Punctuation: Ellipsis	Punctuation: Hyphens Spelling:
and Spelling	Punctuation: Paragraphs - change of time.	Punctuation: Apostrophe for contractions	Punctuation: Parenthesis Semi colons	Commas.	Spelling: Revise range of strategies for learning	Homophones Use of dictionary referring to three or
	Question marks. Exclamation marks.	Colons Dash	Spelling: Revise apostrophe for	Spelling: Rare GPC words from 5/6 list bruise	words Proof reading checking writing for misspelt	four letters
	Spelling:	Spelling:	possession	guarantee	words	

	Revise plurals Silent letters Homophones Dictionary work Proof reading	Extending base words Words containing ough Endings -able -ably	Intro of spelling logs Dictionary work to create collections of words Proof reading	Word endings -ible - ibly Homophones		
Science	Do all animals and plants start life as an egg? Investigation questions: -what is the lifecycle of a meal worm? -How do worms reproduce? -Why do birds lay eggs? • 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.	Can you feel the force? Investigation questions: -How do levers help us? -what do pulleys do? Why are zip wires so fast? • 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.	Could you be the next CSI investigator? Investigation questions: -How clean are your hands? -Can you clean dirty water? -Do all solids dissolve? • 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 & 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 & changes of state are reversible changes • explain that some changes result in the formation of new materials, and that this	Will we ever send another human to the moon? Investigation questions: -How does the moon move? -Can we track the sun? -why do planets have craters? -How do rockets lift off? • 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.	How different will you be when you are as old as your grandparents? Investigation questions: -Do we slow down as we get older? • describe the changes as humans develop to old age.	Assessment of previous topics and units of work-revisiting and applying scientific skills and enquiry

kind of change is not	
usually reversible, including	
changes associated with	
burning & the action of acid	
on bicarbonate of soda.	
How do volcanoes What is a river? Why are mount	coins so
affect the lives of Identify and describe how important?	
	he and
Subject vocability, where	
	-
countries of Europe; recognise, describe, compare in the world and t Recognise, describe and and contrast and explain how countries that the	
Recognise, describe and	
explain the key geographical physical features change along Explain how the model features of the Westman the course of a river; of plates of the E	
and the island of Hiemaey in particular; fold mountains; fold	luate
particular,	
Compare and contrast, using appropriate Changes along a section of a evidence and reac Local river and to reach a conclusion and judy	
geographical vocabulary, the conclusion as to whether it regarding the suc	
physical and human constitutes a healthy habitat failure of expedit	
Geography of for living things; Mallory and Irvine	
Vestmannaeyjar with that Identify and describe the Mount Everest in	
of the local area/region; features of river estuaries and Demonstrate that	
Explain and reach a explain why they are such understand how f	
judgement, using important ecosystems for and can explain w	
appropriate and specialised wildlife; Hillary and Tenzir	
subject vocabulary, why Describe the components of discovered fossils	
there are so few trees on the hydrological or water cycle animals on the sur	
Hiemaey; and explain the important role Mount Everest in	
Explain how volcances form, that rivers play; Identify, describe	
observe the global pattern Recognise, describe and and contrast and	
of volcances correctly and explain the reasons why the the differences b	-
suggest plausible Isle of Dogs developed to the Cambrian Mou	intains of
geographical reasons for become part of the busiest Wales and the Hir	nalaya
this distribution; river port in the world and Mountains;	
Understand how and why evaluate the evidence and Measure, record,	compare
the environment of Hiemaey make a judgement about the and contrast clim	ate data
has changed over time and causes of its sudden decline for Derek's farm	with where
reach conclusions and make and closure; they live and begin	n to offer
judgements about the Interpret a range of reasons for their	
positive and negative impact geographical evidence to reach observations;	
of these changes on the a conclusion as to why	

	wave of life of the second of		Developments in a transfer of the state		Fundain and as a lat	
	ways of life of the people of		Bangladesh is at such a risk of		Explain and reach a	
	Hiemaey;		serious annual river flooding;		conclusion as to why the	
	Understand the stages in				mountains of the north and	
	the manufacture of an				west of the United Kingdom	
	economic activity - fish				are generally wetter and	
	processing - together with				cooler than places in the	
	what export, import and				south and east;	
	trade entails;				Identify, locate, describe	
	Make a reasoned				and explain the tourist	
	geographical judgement,				attractions of the Cambrian	
	using evidence and logical				Mountains by interpreting	
	argument, as to whether				and making judgements	
	earthquakes are more				from evidence presented on	
	dangerous than volcanoes.				Ordnance Survey maps;	
					Evaluate a range of evidence	
					to make a judgement as to	
					why reservoirs were	
					constructed by the City of	
					Birmingham in the mountains	
					of central Wales over one	
					hundred years ago;	
					Understand that even	
					'green' and 'renewable'	
					energy schemes will have	
					environmental costs,	
					evaluate both sides of an	
					argument and make a	
					judgement about the most	
					appropriate way forward;	
					Understand why Scotland is	
					an attractive winter sports	
					centre;	
		Mayan- Why did the		York- What did King		Battle of Britain- Why
		ancient Maya change		George VI mean		was winning the Battle
		the way they lived?		when he said 'The		of Britain in 1940 so
		Inc way mey near				
				history of York is		important?
History				the history of		Potential trip - Battle
				England'?		of Britain exhibition -
				5		Imperial War Museum
						-
						- Duxford
		Celebrating culture and		Pulleys and gears	More complex	
		seasonality.		Key learning in	switches	
DT		seusonun y.			SWILLIES	
				design and		
				technology		



- Have knowledge and understanding about food hygiene, nutrition, healthy eating and a
- Be able to use appropriate equipment and utensils, and apply a range of techniques for

Key learning in

design and

technology

Prior learning

varied diet.

measuring out, preparing and combining ingredients.

Designing

- Generate innovative ideas through research and discussion with peers and adults to develop a design brief and criteria for a design specification.
- Explore a range of initial ideas, and make design decisions to develop a final product linked to user and purpose.
- Use words, annotated sketches and information and communication technology as appropriate to develop and communicate ideas.

Making

- Write a step-by-step recipe, including a list of ingredients, equipment and utensils
- Select and use appropriate utensils and equipment accurately to measure and combine appropriate ingredients.
- Make, decorate and present the food product

Prior learning

- Experience of axles. axle holders and wheels that are fixed or free moving.
- Basic understanding of electrical circuits, simple switches and components.
- Experience of cutting and joining techniques with a range of materials including card, plastic and wood.
- An understanding of how to strengthen and stiffen structures.

Designing

- Generate innovative ideas by carrying out research using surveys, interviews, questionnaires and web-based resources.
- Develop a simple design specification to guide their thinking.
- Develop and communicate ideas through discussion, annotated drawings, exploded drawings and drawings from different views.

Making

 Produce detailed lists of tools, equipment and materials. Formulate step-bystep plans and, if appropriate, allocate tasks within a team. Select from and use a range of tools and equipment to make products that that are accurately assembled and well finished. Work within the

Key learning in design and technology

Prior learning

- Understanding of the essential characteristics of a series circuit and experience of creating a battery-powered, functional, electrical product.
- · Initial experience of using computer control software and an interface box or a standalone box, e.g. writing and modifying a program to make a light flash on and off.

Designing

- Use research to develop a design specification for a functional product that responds automatically to changes in the environment. Take account of constraints including time, resources and cost.
- Generate and develop innovative ideas and share and clarify these through discussion.
- Communicate ideas through annotated sketches, pictorial representations of electrical circuits or circuit diagrams.

Making

- Formulate a step-by-step plan to guide making, listing tools, equipment, materials and components.
- Competently select and accurately assemble materials, and securely connect electrical

Art &	Textiles	 appropriately for the intended user and purpose. Evaluating Carry out sensory evaluations of a range of relevant products and ingredients. Record the evaluations using e.g. tables/graphs/charts such as star diagrams. Evaluate the final product with reference back to the design brief and design specification, taking into account the views of others when identifying improvements. Understand how key chefs have influenced eating habits to promote varied and healthy diets. Technical knowledge and understanding Know how to use utensils and equipment including heat sources to prepare and cook food. Understand about seasonality in relation to food products and the source of different food products. Know and use relevant technical and sensory vocabulary. 	Drawing	constraints of time, resources and cost. Evaluating • Compare the final product to the original design specification. • Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose. • Consider the views of others to improve their work. • Investigate famous manufacturing and engineering companies relevant to the project. Technical knowledge and understanding • Understand that mechanical and electrical systems have an input, process and an output. • Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement. • Know and use technical vocabulary relevant to the project.	 components to produce a reliable, functional product. Create and modify a computer control program to enable an electrical product to work automatically in response to changes in the environment. Evaluating Continually evaluate and modify the working features of the product to match the initial design specification. Test the system to demonstrate its effectiveness for the intended user and purpose. Investigate famous inventors who developed ground-breaking electrical systems and components. Technical knowledge and understanding Understand and use electrical systems in their products. Apply their understanding of computing to program, monitor and control their products. Know and use technical vocabulary relevant to the project. 	Collage
Design	Focus artists: Cynth Weyman Jean Davywinter		Focus Artist: Lucian Freud Hundertwasser • Work in the negative			Focus Artist: Dale Devereux- Barker

•	hole punching, thread removing) using a piece of fabric. Construct a fabric relief panel – pinching, twisting, folding, scrunching fabric and attaching to glued surface. Further develop using Brusho.		 images. Have opportunities to develop simple perspective using a single focal point and horizon. E.g. looking down a road, railway track, across a field to a windmill. To use natural form as a starting point for imaginative work. E.g. what is inside a 			to create collaged squares, incorporating symbols.
	Music Express - Spr 1	Music Express Sur 2	thistle?		Augio Express Aut 1	Ausia Examples - Cum 1
Music Fo	LIFE CYCLES (6weeks) Focus: Structure Subject link: PSHE Explore the human life cycle with music by	Music Express - Sum 2 CELEBRATION (6 Weeks) Focus: Performance Subject link: English A lively celebration in song for the children to	Music Express - Spr 2 KEEPING HEALTHY (6 Weeks) Focus: Beat Subject link: PE From body-popping and gospel-singing to swimming	Music Express - Aut 2 SOLAR SYSTEM (6 Weeks) Focus: Listening Subject link: Science Embark on a musical	Music Express - Aut 1 OUR COMMUNITY (6 Weeks) Focus: Performance Subject link: History The song Jerusalem provides the basis for	Music Express - Sum 1 AT THE MOVIES (6 Weeks) Focus: Composition Subject link: English Explore music from 1920s animated films to

	Luciano Berio, Franz Liszt and Claudio Monteverdi. The wide variety of musical moods, styles & genres inspires singing, performing & composing using new techniques and structures.	assembly, a school concert or fete. The Celebratory, upbeat mood will soon have the audience joining in.	are taken through their paces, and they put together an invigorating performance using new musical techniques.	solar system, exploring how our universe inspired composers including Claude Debussy, Gustav Holst and George Crumb. The children learn a song, and compose pieces linked to space.	through time. The children are given opportunities to compose and perform music inspired by their local community, both past and present.	children learn techniques for creating soundtracks and film scores, and they compose their own movie music.
PE	Basketball play competitive games, modified where appropriate [for example, badminton, basketball, cricket, football, Inclusion activities -Sports that support the understanding of disabilities *tied in with Paralympics	Badminton play competitive games, modified where appropriate [for example, badminton, basketball, cricket, football, Dance perform dances using a range of movement patterns	Netball "hockey, netball, rounders and tennis], and apply basic principles suitable for attacking and defending" Gymnastics develop flexibility, strength, technique, control and balance [for example, through athletics and gymnastics]	Football play competitive games, modified where appropriate [for example, badminton, basketball, cricket, football, Hockey "hockey, netball, rounders and tennis], and apply basic principles suitable for attacking and defending"	Group dynamic activities "take part in outdoor and adventurous activity challenges both individually and within a team" Rounders "hockey, netball, rounders and tennis], and apply basic principles suitable for attacking and defending"	Athletics and Sports Day preparation Lot of dance to prepare for final school performance -Favourite sports/ Low organisation games
Computing	 5.1 We are game developers Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use sequence, selection, and repetition in programs; work with 	 5.2 We are cryptographers Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they 	5.3 We are model controllers (linked to DT) design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts use sequence, selection, and repetition in programs; work with variables and various forms of input and	5.4 We are web developers Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; & the opportunities they offer for communication and collaboration. Use search technologies effectively,	 5.5 We are bloggers Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration. Select, use and combine a variety of software (including internet services) on a range of digital 	 5.6 We are architects Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software (including internet services) on a range of digital devices to design and

	variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals	offer for communication and collaboration. Use technology safely, respectfully and responsibly; recognise acceptable/unaccepta ble behaviour; identify a range of ways to report	output use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems & content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. Use technology safely, respectfully and responsibly; recognise acceptable/unaccep table behaviour;	devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. Use technology safely, respectfully and responsibly; recognise acceptable/unaccepta ble behaviour; identify a range of ways to report concerns about content and contact. Be discerning in evaluating digital content.	create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.
MFL	 Demonstrate broadening vocabulary & developing ability to understand new words Write phrases from memory, and adapt these to -create new sentences Describe people, places, things & actions orally and in writing Understand basic grammar rules & how 	 Listen attentively to spoken language and show understanding by joining in and responding Explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words Engage in conversations; express opinions and respond to those of 	 explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help 	 understand basic grammar how to apply these, for instance, to build sentences; and how these differ from or are similar to English speak in sentences, using familiar vocabulary, phrases and basic language structures 	 develop accurate pronunciation and intonation read carefully and show understanding of words, phrases and simple writing express opinions and respond to those of others understand basic grammar how to apply these, for instance, to build sentences; and how these differ from or 	 broaden their vocabulary and develop their ability to understand new words describe places and actions orally and in writing read carefully and show understanding of words, phrases and simple writing speak in sentences, using familiar vocabulary, phrases and basic language

to apply these, for	others	 present ideas and 	are similar to English	structures
instance to build	• Appreciate stories,	information orally		
sentences and how	songs, poems &	to a range of		
these differ from or	rhymes in the	audiences		
are similar to English	language.	 appreciate stories, 		
		songs, poems and		
		rhymes in the		
		language		

Grey filled boxes indicate that a subject is not being taught explicating during that half term

Please note that the specific skills being focused upon by the year group in each subject will be mapped out with greater detail in STP/MTP planning.