

Key Stage 3 Foundation Stages Reference Guide

ART AND DESIGN

	AO1	AO2	AO3	AO4	
IGN	RESEARCH	EXPLORE	RECORD	RESPOND AND EVALUATE	
ART & DESIGN	Develop ideas through investigations, demonstrating critical understanding of sources.	Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques and processes.	Record ideas, observations and insights relevant to intentions as work progresses.	Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.	
BFS		YOND FOUNDATION STAGE- A Highly d			
5- Effective	An ability to effectively develop ideas through creative and purposeful investigations. An ability to effectively research themes	An ability to effectively refine ideas. An ability to effectively select and purposefully experiment with appropriate media, materials techniques	An effective ability to skilfully record ideas, observations and insights through drawing and annotation, and any other appropriate means relevant to intentions, as work progresses.	A developed ability to competently present a personal and meaningful response and realise intentions with confidence and conviction.	
FS5-	and the relevant work of artists, craftpersons and designers	and processes.		A confident ability to demonstrate understanding of visual language.	
FS4-Consistent	A consistent ability to develop ideas through purposeful investigations. A consistent ability to research themes	A consistent ability to refine ideas. A consistent ability to select and purposefully experiment with	An ability to skilfully record ideas, observations and insights through drawing and annotation, and any other appropriate means relevant to	A consistent ability to competently present a personal and meaningful response and realise intentions	
FS4-Co	and the relevant work of artists, craftpersons and designers	appropriate media, materials, techniques and processes	intentions, as work progresses	A consistent ability to demonstrate understanding of visual language	

FS3-competent	A competent ability to develop ideas through purposeful investigations. A competent ability to research themes and the relevant work of artists, craftpersons and designers	A competent ability to refine ideas A competent ability to select and purposefully experiment with appropriate media, materials, techniques and processes.	A competent ability to record ideas, observations and insights through drawing and annotation, and any other appropriate means relevant to intentions, as work progresses.	A competent ability to present a personal and meaningful response and realise intentions. A competent ability to demonstrate understanding of visual language
FS2- some ability	Some ability to develop ideas through purposeful investigations. Some ability to research themes and the relevant work of artists, craftpersons and designers	Some ability to refine ideas Some ability to select and experiment with appropriate media, materials, techniques and processes	Some ability to record ideas, observations and insights through drawing and annotation, and any other appropriate means relevant to intentions, as work progresses	Some ability to present a personal and meaningful response and realise intentions. Some ability to demonstrate understanding of visual language
FS1 _ Minimal ability	Minimal ability to develop ideas through investigations Minimal ability to research themes and the relevant work of artists, craftpersons and designers	ons Dility to research themes and nt work of artists, craftpersons Dility to research themes and Dility to research the		Minimal ability to present a personal and meaningful response and realise intentions Minimal ability to demonstrate understanding of visual language

RELIGIOUS STUDIES (RS)

	Knowing about and understanding religions and worldviews	Expressing and communicating ideas related to religions and worldviews	Gaining and deploying the skills for studying religions and worldviews
BFS	 Analyse arguments clearly, justifying perspectives Refer to and unpick the context and meaning of scripture Make relevant reference to scripture 	 Synthesise research using different disciplines Appraise various dimensions of religion 	 Use varied methods of study to research ultimate questions Considerable accuracy in the use of SPAG
FS5	 Evaluate diverse beliefs, perspectives, sources of wisdom and ways of life Examine responses to ultimate questions Express a well-supported personal viewpoint, showing appreciation of differing views 	 Explain ideas creatively and coherently, using the main methods of religious study Appreciate various dimensions of religion Express personal reflections with expertise 	 Evaluate questions and arguments personally and critically Explain the significance of beliefs on the life on the believer
FS4	 Appraise different understandings of religion and worldviews Explain the impact of beliefs on individuals and communities 	 Express insights into questions, giving coherent accounts of beliefs and ideas Respond critically to questions Logical chains of reasoning leading to judgement(s) 	 Enquire into and interpret ideas, sources and arguments Articulate beliefs, values and commitments clearly
FS3	 Explain the impact of and connections between ideas and practices, linking different viewpoints Appreciate different understandings of religion and worldviews 	 Explain diverse ideas and viewpoints clearly in various forms Explain your own opinion in a mature and meaningful way 	 Investigate and explain why religions and worldviews matter Reasoned consideration of different points of view
FS2	Describe religions and worldviewsConnect ideas	 Describe your opinion giving relevant reasons Give thoughtful responses using different forms of expression 	 Apply ideas about religions and worldviews thoughtfully Respond creatively to key concepts
FS1	 Describe stories and artefacts, suggesting meanings for sources of wisdom, festivals and worship Discuss ideas and express an opinion 	 Ask questions and give opinions about religions, beliefs and ideas 	 Consider and discuss questions, ideas and various points of view Collect, use and respond to ideas
PFS	Recall, name and talk about materials of religious and nonreligious significance	Observe, notice and recognise religious and nonreligious materials	Notice and find out about religions and worldviews

COMPUTING

	Algorithms	Communication	Data	Information Technology	Programming	The Computer
Pre FS	 Fix problems with an algorithm Make a loop in an algorithm 	 Use a search engine to find suitable information quickly Give rules for keeping safe online Give examples of what would be inappropriate when online Explain how to report inappropriate things that might happen online 	 Explain what data is Give examples of different types of data Explain how data links to information Tell you the difference between text and numbers Use a database to store data 	 Create, store and edit files using appropriate file and folder names independently Choose suitable images and text Use lots of different programs Help other people when they get stuck Explain how to make improvements using feedback from others 	 Make a simple program using LOGO. Fix problems in a program. Explain why instructions need to be accurate for computers. Use an IF statement in a program. Look at some simple code and explain what it does. Spot some mistakes in code. Solve a simple logic problem. 	of hardware and software.
FS1	 Use selections (IF and ELSE) Use inputs or outputs 	 Tell the difference between the internet and the World Wide Web. List different ways to communicate online. Give a list of acceptable and unacceptable behaviour when using technologies and online services. 	 Give examples of changing data into information Use a database to search for information Use filters Explain some ways of keeping data safe 	 Collect, organise and present data and information that is suitable for the purpose. Make appropriate improvements to solutions based on feedback received Comment on the success of the solution they've made. 	 Make a program from the algorithm designed. Use a variable. Use an IF ELSE statement. 	 Explain examples of input devices. Give you examples of sensors. Explain what sensors are used for (data). Explain how software can be used to collect data.

					 Explain the difference between software and hardware and give examples. Explain what the main parts of a computer are.
FS2	 Be able to explain why algorithms are necessary. Be able to explain how algorithms relate to computers. Show a different way of writing an algorithm for the same problem. 		 search using more than one field. Use Boolean and other operators in my searches (not,and,or,>,<,/,*,,+). 	work to meet different audiences. Evaluate own work. Explain how IT can be used for collaboration when computers are networked. Use criteria to evaluate the quality	se Explain what SE computers are IF. used for and the benefits to re. society. Explain
FS3	 Use an iteration and explain what this means. Write different algorithms for a simple problem. Algorithms are well organised and presented neatly. Make a search/sort algorithm. 	 Explain how search engines rank search results. Make a simple website using HTML. Explain (and use) CSS. Explain how the internet works. Explain how a network works (LAN). Explain what cloud computing means. 	 Know what binary is and why computers use it. Know how images are represented on a computer. Explain what compression is. Give examples of data types; real, integer, Boolean. Use a range of queries to find 	 Evaluate the appropriateness of digital devices, internet services and application software to achieve given goals. Come up with own criteria and use it to evaluate the quality of solutions. Use the criteria to identify improvements and 	CPU works with memory. Explain the

		Explain the difference between LAN and WAN.	 answers to problems. Use a simple query language to query a data structure. Explain what DDOS and other attacks are. 	can make appropriate improvements to the solution.	 Select and use different data types. Explain why translators are needed. Explain some facilities of programming languages. 	 Explain how to maintain an operating system using some utilities.
FS4	 Use a loop inside a loop. Describe how to improve their algorithm. so that is uses less lines Suggest another problem using the same algorithm design. 	 Explain what these devices do; hubs, routers and switches Explain what these protocols are used for; SMTP, POP, FTP, HTTP/S,TCP/ IP Know how to use technologies and online services securely. Explain how packet switching works. 	 Explain how numbers, images, sounds and character sets are represented on a computer. Add binary numbers. Explain how resolution effects file sizes. Explain how colour depth effects file sizes. Explain what a data structure is and compare it to a variable. Explain more than two methods of security and give advice on how to keep data safe. 	 Justify the choice of and independently combine and uses multiple digital devices, internet services and application software to achieve given goals. Evaluate the trustworthiness of digital content and considers the usability of visual design features when designing and creating products for a known audience. Identify and explains how the use of technology can impact on society. Design criteria for users to evaluate the quality of solutions. Use the feedback from users to identify improvements. Make appropriate refinements to the solution. 	 Use IF statements inside other IF statements. Write their own procedure/function. Pass a parameter to a function. Choose the right procedure and function for the right job. Use NOT operands (e.g. not equal to) Make a 1d array. Make a 2D array. Bug fix syntax and logic errors. Write a routine to save data to a file. 	 Explain what the Von Neumann architecture is. Explain how main memory works. Explain what an embedded system is and why we need one. Explain how the CPU uses registers and how memory is located.

FS5	Recognise that the design of an algorithm is distinct from its expression in a programming language. Evaluate the effectiveness of algorithms and models for similar problems. Recognise where information can be filtered out in generalizing problem solutions. Use logical reasoning to explain how an algorithm works. Represents algorithms using structured language.	Explain how web servers process and store data. Explain how the data protection act relates to online users.	Explain why some images become pixelated. Explain why higher resolution means better data quality. Create different logic gate and truth tables. Explain the different ways data is stored in programs and explain how to convert data types.	Create creative projects that collect, analyse, and evaluate data to meet the needs of a known user group (target audience). Effectively design and create digital artefacts for a wider or remote audience Consider the properties of media when importing them into digital artefacts (file types) Document user feedback, the improvements identified and the refinements made to the solution. Explain and justify how the use of technology impacts on society, from the perspective of social, economic, political, legal, ethical and moral issues.	Pass parameters to different functions. Use variables in different procedures and explain how variables work in/out functions. Appreciates the effect of the scope of a variable. Use a wide range of loop structures for the correct purpose. Explain when to use different loop structures. Find errors in complex programs and then correct them.	Explain what virtual memory is. Explain what a disk defragmenter does.
BFS	Design a solution to a problem that depends on solutions to smaller instances of the same problem (recursion). Be able to understand that some problems cannot be	Explain how to setup a LAN and a WAN including hardware, protocols and MAC addresses.	Convert between binary, denary and hexadecimal numbers. Subtract binary numbers. Explain the different types of compression (and why we need them).	Understand the ethical issues surrounding the application of information technology, and the existence of legal frameworks governing its use e.g. Data Protection Act, Computer Misuse Act, Copyright etc.	Design a program - with pseudocode optimised (least no of lines). Write a complex program. Always write procedures. Code is always commented and optimised.	Know what a low level programming language is and can give some examples. Explain Moore's Law. Explain how processors multitask.

solved computationally. Be able to select, justify and apply appropriate techniques and principles to develop data structures and algorithms for the solution of problems.	Explain (and make) a simple relational database.	Comment critically on the consequences of current uses of computing, including economic, social, legal and ethical issues explains emerging technologies and their implications for future use of ICT.	Use 2D data structures. Explain	

Target Market **Design Brief** Product Analysis Specification Design ideas Exceptional (Bevond Foundation Stage) As below, but with an exceptional level of detail and use of technical language. FS5/BSF - a detailed understanding of -primary and secondary - a detailed analysis and the specification - designs can be clearly research carried out on a range includes relevant criteria linked to the design explanation of the given Brief. specific targets markets' needs of relevant existing products gathered from prior research specification. and wants. -Key words are identified and -can explain in detail the -aspects such as social and -all developments include explored further. -example given of how marketing importance of this research cultural issues are considered focused quality drawings or tailoring a product to suit, could with within the specification. (close-ups, exploded) to -exploration of initial thoughts be used to influence a target accompany explanations. - analysis is informed and has generated further questions markets' consumer decisions relevant. environmental and areas to investigate. considerations are considered -all designs are original -link 'needs and wants' criteria to and debated and show a high level of -materials, measurements and -areas and ideas suggested can the Design specification creativity. costings are included. be linked to Design Specification. -All decisions can be fully -analysis is linked to justified. specification.

measurements and costing are included. -analysis is linked to specification
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DESIGN AND TECHNOLOGY – DESIGNING

FS3	 -an explanation of the given Brief. - some key words are identified some explored further. - basic exploration of initial thoughts. -some ideas suggested can be linked to Design Specification. 	 demonstrates a basic understanding of a specific targets markets' needs and wants. basic examples given of how tailoring a product to suit could be used to influence a target market Link some basic criteria to the Design specification 	 -primary and secondary research carried out on a relevant existing product. analysis has some detail but is not always relevant. some materials, measurements and costing are included- but are not always accurate. -basic links made to Design specification 	 the specification includes mostly relevant criteria -environmental considerations are considered and mostly relevant most decisions can be fully justified. 	 designs can mostly be linked to the design specification. developments include focused mostly quality drawings most designs are original and show a level of creativity.
FS2	 -limited explanation of the given Brief. - one or two key words are identified -some of the initial thoughts are noted down -areas and ideas suggested are not always relevant and not always linked to Design Specification. 	 demonstrates an understanding of a specific target market one or two examples given of how tailoring a product to suit could be used to influence a target market some links to specification are not always relevant 	 -secondary research carried out on one existing product. - Analysis is basic with little new information added. -some Materials, measurements and costings are included, but only taken directly from secondary resources. -links to specification are very basic and not always relevant 	 the specification includes some relevant criteria environmental issue is mentioned and is relevant some inclusions can be justified. 	 designs make some connection to Design specification designs show a basic level of development and skill design ideas are limited

copied down.	- can name different target markets.	 secondary research carried out on one existing product. 	 the specification contains some relevant criteria 	-designs make a basic reference to design .specification
- one or two key words are identified.	 example given of how different products suit different people. 	analysis is basic with little new information added	 some inclusions are relevant. 	-drawing skill is basic
- limited exploration of initial thoughts.	- can list some examples of what they can include in their product to suit the target market.	links made are not relevant or show little understanding of the task relevance		-design ideas are limited to one or two.
- initial thoughts are not necessarily relevant to the brief .				
-little or no thoughts noted that link to future planning.				
	 one or two key words are identified. limited exploration of initial thoughts. initial thoughts are not necessarily relevant to the brief . little or no thoughts noted that 	 one or two key words are identified. limited exploration of initial thoughts. initial thoughts are not necessarily relevant to the brief. little or no thoughts noted that 	 one or two key words are identified. limited exploration of initial thoughts. initial thoughts are not necessarily relevant to the brief . little or no thoughts noted that 	 one or two key words are identified. limited exploration of initial thoughts. initial thoughts are not necessarily relevant to the brief. limited or no thoughts noted that

DESIGN AND TECHNOLOGY – MAKING

	Use and selection of equipment and tools	Use and selection of materials	Application of skills and techniques	Quality of outcome	Evaluation
	Exceptional (B	eyond Foundation Stage) As	s below, but with an exceptional le	evel of detail and use of technica	l language.
FS5/BSF	 be able to select and use tools and equipment safely and efficiently confident demonstration of machinery to others. Describe and apply QA and QC measures Investigation and understanding of machinery and equipment used in industry 	 a confident understanding of a range of materials, their properties and source. understand the environmental impact of a range of materials be able to justify the selection of a material understand and list standard components be able to offer alternative options for materials and know what would be used in industry. 	 be able to join and construct a product so that it functions as designed. be able to consider and record alternative methods and techniques. be able to compare and test a range of methods and techniques investigation and understanding of industrial processes 	to create a quality, demanding product	 evaluate ideas in detail against the original design specification organisation of a user test session include detailed user feedback and responses respond to user feedback offering a modified version or versions
FS4	 be able to select and use tools and equipment safely and efficiently demonstration of machinery to others. apply QA and QC measures Investigation of machinery and equipment used in industry 	 an understanding of a range of materials, their properties and source. understand the environmental impact of a range of materials be able to justify the selection of a material list standard components be able to offer an alternative option for materials 	 be able to join and construct a product that functions be able to consider and record alternative methods and techniques. Some Investigation and understanding of industrial processes 	 be able to use a range of techniques and process to create a quality product demonstrate quality of finish product has potential for commercial viability with some modifications suggest modification to ensure product is viable 	 evaluate ideas against the original design specification include detailed user feedback and responses respond to user feedback offering a modified version

FS3	 .be able to select and use tools and equipment safely and with some efficiency demonstration of some machinery to others. a limited application of and QA measures can name some machinery used in industry 	 understanding of a limited range of materials and some properties. be able to explain the selection of a material list some standard components Offer alternative options 	 a completed product that has limited functionality. be able to record alternative methods and techniques. be able to compare and test a range of methods and techniques investigation of an industrial process 	 be able to use a range of techniques and process to create a product product has potential for commercial viability with some modifications modifications modifications suggested are mostly relevant or viable 	 evaluate ideas in some relevant detail include user feedback some response given to user feedback
FS2	 be able to select and use a limited range of tools and equipment tools safely apply a limited range of QA measures can name a piece of machinery or equipment used in industry 	 a basic list of relevant materials, be able to list a relevant material choice list a standard component list an alternative option 	 an incomplete product that has some functionality be able to list an alternative method or techniques. can name an industrial process 	 be able to use a limited range of techniques and process with some accuracy, to create a product product has requires much modification or improvement to be viable 	 relevant evaluation of ideas include some user feedback limited response given to feedback
FS1	 be able to select and use appropriate tools or equipment safely 	- name a relevant material - explain choice.	 an incomplete product that has limited functionality 	 - be able to use a technique or process to create a product product - has requires much modification or improvement to be viable 	 evaluation of ideas is present but contains some irreverent points

DRAMA

	Creating, Developing and Refining	Performing
	AO1 – Creating and developing ideas AO3 – Demonstrating knowledge and understanding AO4 – Analysing and Evaluating	AO2 – Applying theatrical skills in live performance
BFS	 I continuously give effective creative ideas and justify them, understanding how to use conventions for a purpose. My use of drama terminology is sophisticated within my explanations and I use it to support my verbal examples. I am confident in directing my peers and leading a group to create effective work, trying new ideas and conventions. I am able to analyse and evaluate my own ideas and those of my peers. I regularly use this evaluation to refine our work and make improvements. 	 I can use my vocal skills, demonstrating the ability to use a range of vocal features confidently and with ease, demonstrating versatility as a performer. I can use my movement skills, demonstrating the ability to use a range of physical features confidently and with ease, demonstrating versatility as a performer. When performing as a character, I do so with energy and commitment. I have considered many attributes of my role to create a developed and rounded character. My focus when performing is sustained and creates an effective impact on the audience. I can communicate very effectively to the audience and with other performers through use of clarity and eye contact. My performance demonstrates thoughtful understanding of style and genre.
FS5	 I continuously give creative ideas and justify them, understanding how to use conventions for a purpose. My use of drama terminology is becoming sophisticated within my explanations. I am confident in directing my peers and leading a group to create original work, trying new ideas and conventions. I am able to analyse and evaluate my own ideas and those of my peers. 	 I can use my vocal skills, demonstrating the ability to use a range of vocal features confidently and with ease. I can use my movement skills, demonstrating the ability to use a range of physical features confidently and with ease. When performing as a character, I do so with energy and commitment. There is a clear understanding of the role I am playing. My focus when performing is clear and creates an impact on the audience. I can communicate effectively to the audience and with other performers through use of clarity and eye contact. My performance demonstrates understanding of style and genre.

FS4	 I am confident in offering creative ideas and using dram terminology in my descriptions. I am able to justify my ideas, showing my knowledge of drama. I engage in the creative process and work well with others, often showcasing leadership skills and supporting others to develop their/our ideas. I am starting to be able to analyse and evaluate my own ideas and those of my peers. 	 range of vocal features to make my character interesting. I can use my movement skills, demonstrating the ability to use a range of physical features to make my character interesting. When performing as a character, I do so with energy and
FS3	 I can give creative ideas and often use drama terminology in my descriptions. I am starting to be able to justify my ideas, showing my knowledge of drama. I engage in the creative process and work well with others, sometimes showcasing leadership skills. 	 I can use my vocal skills, demonstrating the ability to use tone, pitch, clarity, projection and pace. I can use my movement skills, demonstrating the ability to use gesture, facial expression, gait and posture. When performing as a character, there is a clear understanding of the role I am playing and a sense of ease. I am starting to communicate clearly to the audience and with other performers through use of clarity and eye contact.
FS2	 I sometimes give basic ideas but don't always use drama terminology to explain them. I try to engage in the creative process but am not yet confident in taking a leadership role or supporting others. 	 I can use my vocal skills on a basic level with some projection, clarity and tone. I can use my movement skills in a basic way with some use of facial expression and gesture. When performing as a character, there is a basic understanding of the role I am playing. I still struggle to always communicate clearly to the audience and with other performers through use of clarity and eye contact.
FS1	 I struggle to give ideas and show my knowledge of drama. don't always engage in the creative process and find it difficult to collaborate. 	 I struggle to use my voice and/or movement confidently when performing. When performing as a character, it isn't clear who my character is by my choices.

	AO1 Understanding and Inference	AO2 Language	AO2 Structure	AO3 Comparison of writers' ideas & methods	AO4 Personal and Critical Response to Text	LIT Context and Writer's Message
		Beyond 5 - As b	elow, but with insight, indepe	endence, flair and increasin	g sophistication.	
5 Effective and Excelling	 Successfully considers a range of writers' ideas as crafted by the author. Able to give effective and valid explanations of implicit meanings and viewpoints independently. Consistently embeds a range of appropriately chosen textual detail at all times. 	 Analyses and evaluates a range of writer's language choices in depth, and can comment accurately on some advanced language, including patterns of language. Uses a wide range of subject terminology accurately, including some more challenging terms. Considers author's intentions in relative depth. 	 Analyses and evaluates the effects of a range of writers' structural choices. Uses more complex subject terminology accurately. Considers author's intentions in relative depth. 	 Makes clear and valid comparisons, evaluating some more challenging and inferential ideas. Explanations are consistently detailed and apt, considering the author's intentions in depth. 	 Evaluates the text clearly and in detail. Appreciates the effects of the writer's methodology and can comment on challenging ideas, using adverbs skilfully. Comments are firmly rooted in the text, interesting and inferential. 	 Explores the writer's ideas and attitudes within the social, historical and cultural context of the text. Can consider the varied audiences and the author's possible message. Comments are wellargued, clear and valid.
4 Consistently enhancing	 Can successfully express an understanding of writers' purpose and ideas as crafted by the author. Increasingly understands inferred meanings and can explain. 	 Explains the effects of a writer's language choices in detail, and attempts to analyse some more advanced language. Uses a range of subject terminology with increasing accuracy. Makes some valid comments about author's intentions. 	 Explains the effects of a writer's structural choices in some detail. Uses subject terminology with increasing accuracy. Makes some valid comments about author's intentions. 	 Makes clear comparisons between texts, and identifies a few implicit ideas. Explanations are relatively detailed and consistently valid. Begins to explore author's intentions. 	 Makes evaluative comments about the text with an understanding of writer's methodology. Can begin to discuss some more challenging ideas, using adverbs and verbs effectively. Comments are often inferential and rooted in the text. 	 Explains the writer's ideas and attitudes and connects these to different aspects of context, including how different readers / audiences might react. Comments are detailed and wellexplained, but some minor

		misconceptions might still be evident.

Begins to embed			
more relevant			
textual detail			
with increasing			
consistency.			

3 Competent and Secure	Developing understanding of writers' purpose and ideas as the crafter of the text. Able to attempt some inferences, but there may be errors in understanding / be inconsistent. More relevant textual detail chosen, but selects obvious, or scaffolded, choices. Often doesn't embed quotations.	Identifies and explains the effects of a writer's techniques and language choices, but tends to comment on more obvious techniques. Able to use some technical terminology but not always consistently / accurately. Increasingly links to author's intentions, but still generalises somewhat.	Explains the effects of some of the writer's structural choices. Able to use some subject terminology about structure but not always accurately / consistently. Increasingly links to author's intentions, but still generalises somewhat.	Identifies some similarities and/or differences between texts, but they're mostly obvious. Possibly some implicit comments. Explanations are clear and mostly valid. Limited consideration of author's intentions.	Makes some evaluative comments about the text with a growing awareness of the writer's methodology, but still tends to comment on the simpler ideas. May begin to use adverb and verbs when discussing author's purpose. Comments are more rooted in the text and explained well. May begin to infer.	Beginning to identify writer's ideas and attitudes in the text and links these to context. Comments are more detailed, with a number of generalisations and/or misconceptions still evident.
2 Developing and establishing	No obvious misconceptions, but comments are not always linked to writer's ideas / acknowledge that the writing is crafted.	Some ability to identify some basic language techniques and appropriate words but comments can be simple. Attempts to use technical terminology, with a number of errors.	Discusses the sequence of a text in a more detailed manner, however any further comments are inaccurate or generalised.	Some straightforward links about similarities and/or differences between texts, using simple connectives.	Offers a straightforward opinion about the text. Comments are not always well explained, but are generally rooted in the text.	Shows familiarity with the writer's ideas and text in context whether as a reader now or in the social, historical context.

	Deals successfully with explicit elements of the text. Limited use of textual detail or extended references to the text, not always relevant to the task.	May attempt to discuss author's intentions, but mostly generalises.	May use some limited terminology but comments are mostly inaccurate. May attempt to discuss author's intentions, but mostly generalises.	Explanations more developed, but areas of misunderstanding evident. May focus on one text more than the other.		Comments are slightly more detailed, but misconceptions/ generalisations are evident throughout.
1 Emerging	Limited understanding of the text, with some significant misconceptions. Deals purely with explicit, obvious meanings, often inconsistently. May be no textual detail, or inappropriately chosen reference to the text.	A selection of words and phrases may be identified, but any comments are simple or repeat the quotation. Very limited, or no, use of the technical terminology. Numerous errors in identification. May give inaccurate comments on the author's intentions.	Can make basic comments on the sequence of the text, but in a very generalised manner. No use of the terminology. May give inaccurate comments on the author's intentions.	Some ability to comment on texts but no analytical linking or cohesion evident. Explanation minimal or unclear.	Makes very simple, overtly personal comment about the text. Comments are unclear and not linked to the text.	Makes some generalised and very simple comments about the writer's ideas and the text in context.

	AO5 – Communication	A06 – Organisation	AO7 – Sentences and punctuation	AO8 – Vocabulary	AO9 – Spelling (including homophones)
BFS5		Originali	ity, independence, flair, sophistication		
5 Effectively excelling	 All communication is effective and engaging. Reader is fully engaged and responds personally to the writing. Matching tone / style to audience / purpose / task is embedded and contributes to the meaning. 	 Conscious crafting of paragraphs and, crucially, whole text. Advanced discourse markers to subtly guide the reader effectively and are used to complement the text's purpose. 	 Wide range of sentence structures are crafted to heighten reading and emotional impact. Wide range of punctuation chosen for effect. 	 All word choices combine to create a fluent and increasingly engaging tone. Phrasing is ambitious, and crafted effectively on a number of occasions. Devices are crafted and appropriately embedded throughout. 	 Very rare spelling errors of even more complex words.
4 Consistently enhancing	 The communication is clear and effective. Reader is engaged. Matching tone / style to audience / purpose / task is embedded. 	 Paragraphs are increasingly used for effect. Whole text is well structured. A variety of more advancing discourse markers are deployed correctly and they create an appropriate effect. 	 Conscious use of a range of sentence structures and forms. Fewer errors with advanced punctuation. 	 All word choices combine to create a successful, deliberate tone. Vocabulary is often ambitious and more successful in complementing the tone. Devices are embedded throughout and add to the overall effect. 	Spelling errors do not impact meaning and mistakes are few.
3 Competent and secure	 The whole piece communicates ideas clearly and tense is secure. Increasing moments of engagement for the reader. There is evidence that matching tone / style to audience / purpose / task was considered throughout the piece. 	 Paragraphs are used accurately. Structuring of whole piece is accurate. A variety of discourse markers are starting to be deployed (however, on the other hand, despite) 	 Use of simple, compound and complex sentences. Commas starting to be used in subordinate clauses – mostly accurately. Beginning to use a wider range of punctuation. 	 All word choices are relevant to tone. Students have begun to experiment with ambitious vocabulary, sometimes inconsistently. Clear basic devices. Attempts at more complex ones. 	 Attempting to spell more ambitious words correctly. Some errors.
2 Developing and establishing	 Most communication is clear. Rare moments of engagement for the reader. 	 Text is in a logical order. Paragraphs are used but not always accurately. 	 Use of simple and compound sentences. Basic punctuation is used correctly. Comma splicing evident. 	 Most word choices are relevant to tone. Some evidence of conscious, but simple, word selection. 	Some errors with more complex

	Attempts at matching tone / style to audience / purpose / task are more obvious.	Appropriate time connectives (and, then, firstly, secondly)	Some errors with more complex punctuation.	Occasional use of devices. They are basic and may not be clear.	spelling patterns.
1 Emerging	Some of their writing communicates ideas clearly but there can be confusion. Reader is not engaged. There are attempts at matching tone and style to the audience, purpose and task.	Text is in a logical order. An inconsistent / limited use of paragraphs.	All sentences are simple. Some compound. Basic punctuation is used correctly most of the time (capitals, full stops)	Some word choices are relevant to tone. Word choices are simple. May attempt simple language devices.	Evidence of phonetic spelling.

FOOD AND NUTRITION

	Hygiene and Safety	Selecting Equipment	Selecting Ingredients	Finish of Product	Sensory Evaluation	Nutrition	Evaluation
	Exceptional (Stage) As below, but with	h originality, independ	ence and flair		
FSS/BSF	- I understand and am thorough with the personal hygiene rules in a catering kitchenI am thorough to keep my work area safe and hygienic I apply good practice towards correct storage, preparation and cleaning when working with food.	- I can choose the correct equipment for use with accuracy and precision I can use the correct equipment with fine manual dexterity.	-I can follow a recipe with confidenceI can recognise and explain the function of ingredients for more complex recipes. -I can recognise and use a wide range of food commodities I can design my own recipes.	-I can make an excellent quality product which is saleable The product is almost catering standard. -I make one or no errors during making.	-I can identify the different characteristics of food – appearance, odour, taste, texture and use an extensive vocabulary to describe food products.	-I can identify all the basic nutrients in food and identify the nutrients in the dishes I makeI can adapt or change the food to change the nutrient content based on a person's diet.	-I can use constructive criticism to improve the quality of my product and explain how it has been developed.
F54	- I understand and show the personal hygiene rules in a catering kitchen I organise my work area to be safe and hygienic I understand the importance of the correct storage, preparation and cleaning when working with food.	- I can choose the correct equipment for use with accuracy I can use the correct equipment with accuracy, competent manipulation and coordination.	 I can follow a recipe with occasional support. I can recognise and explain the function of most ingredients. I can recognise and use all basic food commodities 	-I can make a good quality product with few finishing issues. - I am able to correct simple errors during making with no support.	-I can identify the different characteristics of food – appearance, odour, taste, texture and use a wide vocabulary to describe food products.	-I can identify all the basic nutrients in food and identify the nutrients in the dishes I make.	- I can use customer feedback to improve my product further

FS3	 -I'm aware of and I am improving my personal hygiene rules in a catering kitchen. -I am aware of how to organise my work area to be safe and hygienic. - I am aware of the importance of the correct storage, preparation and cleaning when working with food. 	- I can choose the correct equipment for use with increased accuracy I can use the correct equipment with increased accuracy and manipulation.	-I can follow a recipe with limited support I can recognise and explain the function of some ingredients I can recognise and use basic food commodities.	 I can make a good quality product with some finishing issues. I am able to correct simple errors during making with limited support. 	-I can identify the different characteristics of food – appearance, odour, taste, texture.	-I can identify all the basic nutrients in food.	-I can give suggestions of further adaptions.
FS2	 - I'm working towards improving my personal hygiene rules in a catering kitchen I am working towards organising my work area to be safe and hygienic. - I am working towards knowing the importance of the correct storage, preparation and cleaning when working with food. 	-I can choose the correct equipment for use with some accuracyI can use the correct equipment with some accuracy and show reasonable manipulation.	 -I can follow a recipe with support. -I can recognise and explain the function of a couple of ingredients. -I can use basic food commodities. 	-I can make a fair quality product with several finishing issues - I am able to correct simple errors during making with support.	-I can identify some basic characteristics of food and use a basic vocabulary to describe food.	-I can identify some basic nutrients in food.	-I can identify problems and suggest solutions.

FS1	-I'm working towards improving my personal hygiene rules in a catering kitchen but don't always get it right. - I am working towards but don't always do the organising of my work area to be safe and hygienic I am working towards but don't always know the importance of the correct storage, preparation and cleaning when working with food.	-I can choose the correct equipment for use with limited accuracyI can use the correct equipment with limited accuracy and struggle with manipulation.	-I can follow a recipe with lots of support. -I struggle to recognise and explain the function of a couple of ingredientsI struggle to use basic food commodities.	 -I struggle to make a quality product, it has many finishing issues. -I have difficulty correcting errors during making. 	-I can identify a few basic characteristics of food and use a limited vocabulary to describe food.	-I can identify a few basic nutrients in food.	-I can give verbal feedback about problems.
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GEOGRAPHY

Pre Foundation Stage

- Students have limited understanding of physical and human environments in local areas, the UK, and wider world but are able to describe general common features.
- Students recognise some simple processes and how these contribute to the changes of places and environments.
- Students offer simple explanations for their observations and views about places, and physical and human environments. Appropriate simplistic terminology is used to communicate their ideas.
- Students recognise patterns on a map, use the 4 point compass and construct basic graphs, e.g. bar graphs.
- Students use geographical data to find the highest and lowest values, as well as complete basic calculations e.g. the range of the data.

Foundation Stage 1

- Students show basic understanding of the physical and human geography of their local area, and begin to widen their understanding to examples from the UK and further afield.
- Students recognise physical and human features, offering simple descriptions about their characteristics. Students recognise and describe simple geographical patterns.
- Students understand that people can improve and damage physical and human environments.
- Students begin to present their findings using basic key terminology. They will recognise and use map symbols, the 8-point compass and begin to have a working understanding of 4 figure grid references and straight line distances.
- Students construct a range of graphs, e.g. a bar and line graph, and use the mean and median values.

Foundation Stage 2

- Students' depth of understanding of physical and human geography around their local area and the UK increases, and begins to expand to include the wider world.
- Students describe the physical and human characteristics of these environments on a local and global scale.
- Students describe how different physical and human environments have similarities and differences and how they arise from a variety of physical and human processes.
- Students begin to develop their own geographical questions, briefly discuss their methods, draw some conclusions and offer some evaluation of their investigation.
- Students present their work both graphically and in writing, using more accurate geographical terminology.
- Students describe distributions of physical and human features and can sketch, label and start to annotate sketch maps and photographs in greater depth.
- Students have an increasing working knowledge of OS map skills, use the 8 point compass and can use 4 figure grid referencing with increasing confidence.
- Students show an understanding of the data through statistical skills e.g. mode and modal class.

Foundation Stage 3

- Students begin to understand how the links between physical and human geography create the particular characteristics of different places and begin to think more worldwide.
- Students recognise that physical and human processes link with the physical and human environments, which creates diversity and changes.

- Students will start to understand that the use and management of environments can have consequences and can start to explain how these can result in change.
- Students can begin to develop their own geographical questions, briefly discuss their methods, draw some conclusions and offer some evaluation of their investigation.
- Students present their work both graphically and in writing, using more accurate geographical terminology.
- Students have a working understanding of OS map skills, begin to use 6 figure grid references and describe geographical patterns on maps.
- Students draw a wider range of graphical techniques, including multiple line graphs.
- Students' understanding of data will be demonstrated using simplistic statistical and numerical skills with an increasing attempt to understand trends reflected in the data set.

Foundation Stage 4

- Students recall very basic information about the physical and human region studied and their specific environmental characteristics.
- Students recognise that on the wider scale, places have different regions, and begin to compare them.
- Students understand simple geographical ideas about physical and human processes but not always linked to a specific example.
- Students appreciate that processes help develop geographical patterns, which have their own characteristics for places and the environment.
- Students understand the interrelations between physical and human environments and people, and the sustainable management of these.
- Students conduct a geographical enquiry, collect data (primary and secondary) using appropriate techniques, collate the information and present findings using a number of graphical techniques e.g. bar graphs. Outcomes of the enquiry are simplistic with a limited range of key terminology.
- Students have an improved knowledge of how numerical and statistical skills can be used to describe and analyse geographical data.

Foundation Stage 5

- Students recall basic information about physical and human environments, often limited to a few geographical scales with a basic knowledge of specific locations.
- Students show some recognition of the physical and human processes involved with some appreciation of the resulting geographical patterns.
- Students recognise that people have different values and attitudes to the changes of the physical and human environments, varying dependent on how the landscape is being used and managed.
- Students conduct a geographical enquiry, collect data from primary and secondary sources, collate the information and present their findings using a range of simplistic techniques. Outcomes of the enquiry are simplistic with a range of key terminology used.
- Students can fully recognise the patterns made by physical and human features and use a range of cartographical skills to interpret and analyse the trends. A wide range of OS map skills will be used confidently.
- Students use statistical and numerical skills with increasing ease and include more sophisticated analysis techniques e.g. percentage increase or decrease when analysing data.

Foundation Stage 6

- Students recall basic information about physical and human environments, with a growing appreciation of different scales. They demonstrate simplistic knowledge of location through specific case studies with geographical ideas referred to in a simple manner.
- Students understand simple physical and human processes. Students begin to understand how the different views of people have different effects on how environments are used and managed.

- Students conduct a geographical enquiry, collecting appropriate data from primary and secondary sources. Students make accurate decisions about the data, with limited conclusions attempted and offer an evaluation often focused on one aspect of the enquiry.
- Students have a good understanding of how cartographical and OS skills can be used to describe and interpret geographical patterns.
- Students understand a range of graphical techniques and how to interpret the data presented.
- Students demonstrate a range of graphical skills and interpret different types of photographs from a range of different landscapes.
- Students clearly link photographic evidence to OS maps.
- Students use more sophisticated statistical skills e.g. percentage change or cumulative frequency as a means of analysing data.

Exceeding Foundation Stage

- Students recall a wider variety of information about physical and human environments. They show some understanding of the location of these environments through case study detail with appropriate key terminology used.
- Students recognise the inter-relationships between processes at different scales.
- Students understand that these processes help develop geographical patterns and that these areas have specific characteristics.
- Students understand how the relationship between people and environments inter-link, and trying to achieve sustainable development will affect planning and management of these areas.
- Students conduct a geographical enquiry, identify key questions or hypotheses to support, suggest an appropriate sequence of investigation, and collect appropriate data (primary and secondary) to help support the enquiry. This is collated and presented using simplistic techniques but they begin to produce more sophisticated techniques.
- Students communicate their findings in more detail with plausible conclusions offered, as well as evaluation offered for several aspects of the enquiry.
- Students clearly understand cartographic and OS map skills and use these to interpret patterns of human and physical features at a local, national and worldwide scale.
- Students have good graphical skills and can draw and interpret data on sophisticated graphs e.g. choropleth and flow line maps.
- Students use numerical and statistical skills to interpret data sets, highlighting trends and anomalous values.

HISTORY LEVELS

	Skill	"What evidence do I have?" Using evidence	"Why do people think that?" Interpretations	"What made something important?" Significance	"Why did things change?" Continuity & change	"Why did things happen?" Cause and consequence
Exceptional	BFS	You can explain your own judgements about historical questions using sources beyond those expected.	You can construct your own interpretation, evaluate why it is useful and limited, comparing it to existing Interpretations in their context.	You can explain your own judgements about historical significance using knowledge beyond that expected.	You can explain your own judgements about change and continuity using knowledge beyond that expected.	You can explain and make your own judgements about causation using knowledge beyond that expected.
Effective	FS5	You can analyse why a source is useful to a historian. e.g. useful (valuable) or convincing.	You can analyse a number of interpretations and make a judgement about them e.g. which is most convincing based upon the content or provenance.	You can analyse how significance can vary according to different viewpoints e.g. then and now.	You can analyse (examine in detail) change and continuity. e.g. long, short term & Political, Economic, Social.	You can analyse a range of causes and consequences. e.g. long, short term & Political, Economic, Social.
Consistent	FS4	You can investigate and make a judgement about evidence e.g. considering Nature, Origin, Purpose.	You can explain reasons for an interpretation, considering viewpoint, purpose, audience and their evidence.	You can investigate different reasons for significance e.g. short-term and long-term impact & make a judgement. At least three of the 5rs.	You can investigate events and make a judgement about change and continuity.	You can investigate links and make a judgement between two causes and consequences.
Competent	FS3	You can make inferences from sources to understand events.	You can make inferences from interpretations to understand its message.	You can explain why some people or events are significant. e.g. results, remembered.	You can explain why some changes or continuities are more important than others.	You can explain how one cause and/or consequences are more important than others.

Inconsistent	FS2		interpretations	You can describe and give some reasons why a person or event might be significant.	You can describe why changes have happened in history.	You can describe two causes or consequences, similarities and differences.
Limited	FS1	You can describe what sources tell you.	interpretation at the post	You can describe an important person or event or history.	You can describe important changes in history.	You can describe one cause or a consequence.
	PFS	You can identify parts of a source.		You can identify a significant event.	You can identify a change.	You can identify a cause and consequence.

MODERN FOREIGN LANGUAGES

Speaking

Foundation Stage 1 – Speaking

When I am speaking with my teacher, in pair work or in front of the class:

Communication

I can give clear one word answers or short sentences. I give opinions using a few phrases that I know but I don't give reasons for my opinions. What I want to say is usually clear if I am speaking about something I have just learnt or practised. I am able to say a few things about what I am learning currently. I am able to remember a question which I could use in class.

Range and accuracy of language

I repeat the same types of structures and phrases to answer questions. I have a limited range of vocabulary and I often repeat the same adjectives, structures and opinions.

Pronunciation and intonation

I pronounce some words well, but I may mispronounce quite a few words. There is little intonation in my voice.

Spontaneity and fluency

I can answer most simple questions when my teacher prompts me with a starter phrase as I struggle to understand some questions. I hesitate quite a bit when answering questions and the delivery of my answers may be quite slow and broken.

Foundation Stage 2: Speaking

When I am speaking with my teacher, in pair work or in front of the class:

Communication

I can communicate what I want to say quite clearly if I am speaking about something I have just learnt or practised.

I give opinions using a few phrases that I know and I may attempt to give reasons.

I am able to talk about a few different topics and I can remember vocabulary from past topics.

I am able to remember a few different questions that I could use to ask my friend an opinion or to ask my teacher for something.

Range and accuracy of language

I repeat the same types of structures and phrases to answer questions. I use a limited range of vocabulary but I use a few different adjectives, structures and opinion phrases. I may try to talk about the past, the present or the future but I still struggle to make my verbs match the tense that I want to talk in.

Pronunciation and intonation My

pronunciation is usually good. There is some intonation in my voice.

Spontaneity and fluency

I can answer most simple questions when I know what I'm being asked although I ask for help with understanding some questions. I sometimes hesitate when speaking and the delivery of my answers may be quite slow and broken.

Foundation Stage 3: Speaking

When I am speaking with my teacher, in pair work or in front of the class:

Communication

I can communicate quite clearly in full sentences.

I give opinions using a few phrases that I know and I sometimes give a reason for my opinion.

I am able to talk about a few different topics and I can remember vocabulary from past topics, although sometimes what I want to say is a bit unclear. I am able to create simple questions of my own for both my teacher and my friends.

Range and accuracy of language

I repeat the same types of structures and phrases to answer questions. I try to use a variety of vocabulary, adjectives and opinion phrases, although I may still repeat some things. I may try to talk about the past, the present or the future but I sometimes struggle to make my verbs match the tense that I want to talk in.

Pronunciation and intonation My

pronunciation is usually good. There is some intonation in my voice.

Spontaneity and fluency

I can answer almost all questions when I know what I'm being asked and I occasionally ask for help with understanding questions. I sometimes hesitate when answering questions and the delivery of my answers may be quite slow and broken.

Foundation Stage 4: Speaking

When I am speaking with my teacher, in pair work or in front of the class:

Communication

I can communicate quite a lot of information clearly and accurately although sometimes what I want to say is a bit unclear. I regularly give opinions using lots of familiar phrases and I sometimes give reasons for my opinions. I am able to talk about a variety of different topics and I can switch between topics of conversation with prompts from my teacher. I am able to create simple questions of my own for both my teacher and my friends.

Range and accuracy of language

I try to use a variety of different vocabulary, although sometimes I may repeat the same types of structures and phrases to answer questions. I sometimes try to use some more complex structures but I often make mistakes with these. I try to talk about the past, the present and the future on different topics that I have covered and I am generally successful.

Pronunciation and intonation

My pronunciation is generally good. There is usually quite a bit of intonation in my voice.

Spontaneity and fluency

I can answer almost all questions I am asked.

I sometimes hesitate when answering questions and occasionally I get stuck on what a question means but I tend to work this out on my own. The delivery of my answers is sometimes slow and broken, but generally my speech flows.

Foundation Stage 5: Speaking

When I am speaking with my teacher, in pair work or in front of the class:

Communication

I can communicate lots of information clearly and I extend most of my answers.

I can expand and develop my answers further when my teacher asks for more information.

I regularly give opinions using lots of familiar phrases and I normally give reasons for my opinions.

Range and accuracy of language

I use a variety of different vocabulary e.g. adjectives, opinion phrases, intensifiers etc.

I can talk about the past, the present and the future on any topic I have covered. I try to use some more complex structures to show more advanced language. I am very accurate when I speak, although I sometimes make mistakes when attempting more complex structures. I am able to talk about a variety of different topics and I can switch between topics of conversation easily. I am able to create questions of my own for both my teacher and my friends.

Pronunciation and intonation

My pronunciation is good, but I may mispronounce the odd word. The intonation in my voice is good.

Spontaneity and fluency

There may be a slight delay when answering a question while I figure out what I have been asked, but I can generally answer all questions my teacher or friend asks me.

I sometimes hesitate when I am speaking, but I give all of the information required.

I am sometimes spontaneous with questions I am not expecting although I often repeat the same structures and phrases.

Beyond Foundation Stage: Speaking

When I am speaking with my teacher, in pair work or in front of the class:

Communication

I consistently develop responses and can talk for quite a long time when answering a question. I can expand and develop my answers further very well when my teacher asks for more information. What

I want to say is very clear.

I consistently give and explain opinions well.

Range and accuracy of language

I use a wide variety of different vocabulary e.g. adjectives, opinion phrases, intensifiers etc and I rarely repeat myself.

I can confidently talk about the past, the present and the future on any topic I have covered but I make the odd minor mistake.

The language I use is very accurate and I use more complex structures confidently to show more advanced language, although I may make minor mistakes when doing so.

I am able to talk about a variety of different topics and I can switch between topics of conversation easily.

Pronunciation and intonation

My pronunciation is consistently very good. The intonation in my voice is very good.

Spontaneity and fluency

I respond to questions promptly and naturally the majority of the time.

I can answer all questions my teacher or friend asks me.

I am quite spontaneous with questions I am not expecting and my speech flows well.

<u>Writing</u>

In Languages, students will develop higher levels of independence as they move through the Foundation Stages. As they progress, their work will demonstrate a greater understanding of grammar and range of language.

Foundation Stage 1: Writing

When I am writing:

Content

I can communicate some required messages clearly in short simple sentences. I give simple opinions using phrases that I know. I can write about what I am learning currently.

Quality of Language

I sometimes use capital letters correctly. I often rely on repeating the same structures and phrases. I have a limited range of vocabulary and I often repeat the same adjectives and phrases. I make quite a few mistakes which can make the meaning unclear.

Foundation Stage 2: Writing

When I am writing:

Content

I can communicate some of the information required in simple sentences, although sometimes what I want to say is unclear. I give simple opinions.

I can give simple reasons for my opinions.

Quality of Language

I mostly use capital letters correctly. I often use the same structures and phrases. I use some different vocabulary but I often repeat the same adjectives. I attempt more than one tense (past, present or future) although sometimes I get it wrong I often make mistakes with verbs and tenses but the message is usually clear. My work is more accurate than inaccurate.

Foundation Stage 3: Writing

When I am writing:

Content

I can communicate quite a lot of the information required clearly and in full sentences, although there may be a couple of times when what I want to say is unclear.

I give opinions.

I give reasons for my opinions.

Quality of Language

I always use capital letters correctly.

I don't always rely on the same structures and phrases.

I use a variety of vocabulary including different adjectives.

I attempt to write about the present and the past or future using time markers even though I make mistakes. My work is more accurate than inaccurate and my verbs are mostly secure.

Foundation Stage 4: Writing

When I am writing independently:

Content

I can clearly communicate most of the information required, sometimes using longer sentences. I give opinions using different opinion phrases. I often give reasons for my opinions.

I am aware of formal and informal language and of different types of text for different purposes.

Quality of Language

I attempt complex structures. I use a good variety of vocabulary including different adjectives. I attempt to write about the present and the past or future using time markers even though I sometimes make little mistakes. My writing is mostly accurate, despite a few mistakes when I attempt more complex structures.

Foundation Stage 5: Writing

When I am writing independently:

Content

I can clearly communicate my ideas using full sentences and short paragraphs.

I understand what I need to write about, even when questions are given in the Target Language.

I can answer questions giving all of the information required.

I regularly give opinions using lots of familiar phrases and I normally give reasons for my opinions.

I can write different types of texts for different purposes and I know when and how to use formal and informal language.

Quality of Language

I sometimes repeat the same structures and phrases but I use a variety of vocabulary.

I try to use some more complex structures to show more advanced language, even though I sometimes make little mistakes.

My basic grammar is very accurate, so my verbs and agreements are almost always correct.

I occasionally make small mistakes with spelling and accents but these do not affect how clear my ideas are.

I can write about events in the past, the present and the future using time markers and only occasionally make mistakes with my verbs.

Beyond Foundation Stage: Writing

When I am writing independently:

Content

I can clearly communicate my ideas using full sentences and short paragraphs.

I understand what I need to write about, even when questions are given in the Target Language.

I can answer questions giving all of the information required.

I regularly give opinions using a lot of **different** phrases and I **always** give reasons for my opinions.

I can write different types of texts for different purposes and I know when and how to use formal and informal language.

Quality of Language

I use a wide variety of vocabulary and I never repeat the same structures and phrases.

I regularly use more complex structures well to show more advanced language, even though I sometimes make little mistakes.

My grammar is very accurate, so my verbs and agreements are almost always correct. I occasionally make small mistakes with spelling and accents but these do not affect how clear my ideas are.

I can write about events in the past, the present and the future using time markers and very rarely make mistakes with my verbs.

MATHS

The levels below represent a 'best fit' model.

Using and applying

Pre Foundation Stage Students use mathematics as an integral part of classroom activities. They represent their work with objects or pictures and discuss it. They recognise and use a simple pattern or relationship. Students select the mathematics they use in some classroom activities. They discuss their work using mathematical language and are beginning to represent it using symbols and simple diagrams. They explain why an answer is correct.

Foundation Stage 1 Students try different approaches and find ways of overcoming difficulties that arise when they are solving problems. They are beginning to organise their work and check results. Students discuss their mathematical work and are beginning to explain their thinking. They use and interpret mathematical symbols and diagrams. Students show that they understand a general statement by finding particular examples that match it.

Foundation Stage 2 Students develop their own strategies for solving problems and use these strategies both in working within mathematics and in applying mathematics to practical contexts. When solving problems, with or without ICT, they check their results are reasonable by considering the context. They look for patterns and relationships, presenting information and results in a clear and organised way, using ICT appropriately. They search for a solution by trying out ideas of their own.

Foundation Stage 3 In order to explore mathematical situations, carry out tasks or tackle problems, students identify the mathematical aspects and obtain necessary information. They calculate accurately, using ICT where appropriate. They check their working and results, considering whether these are sensible. They show understanding of situations by describing them mathematically using symbols, words and diagrams. They draw simple conclusions of their own and explain their reasoning.

Foundation Stage 4 Students carry out substantial tasks and solve quite complex problems by independently and systematically breaking them down into smaller, more manageable tasks. They interpret, discuss and synthesise information presented in a variety of mathematical forms, relating findings to the original context. Their written and spoken language explains and informs their use of diagrams. They begin to give mathematical justifications, making connections between the current situation and situations they have encountered before.

Foundation Stage 5 Starting from problems or contexts that have been presented to them, students explore the effects of varying values and look for invariance in models and representations, working with and without ICT. They progressively refine or extend the mathematics used, giving reasons for their choice of mathematical presentation and explaining features they have selected. They justify their generalisations, arguments or solutions, looking for equivalence to different problems with similar structures. They appreciate the difference between mathematical explanation and experimental evidence. Students develop and follow alternative approaches. They compare and evaluate representations of a situation, introducing and using a range of mathematical techniques. They reflect on their own lines of enquiry when exploring mathematical tasks. They communicate mathematical or statistical meaning to different audiences through precise and consistent use of symbols that is sustained throughout the work.

Beyond Foundation Stage Students critically examine the strategies adopted when investigating within mathematics itself or when using mathematics to analyse tasks. They examine generalisations or solutions reached in an activity and make further progress in the activity as a result. They comment constructively on the reasoning and logic, the process employed and the results obtained. They explain why different strategies were used, considering the elegance and efficiency of alternative lines of enquiry or procedures. They apply the mathematics they know in a wide range of familiar and unfamiliar contexts. They use mathematical language and symbols effectively in presenting a convincing, reasoned argument. Their reports include mathematical justifications, distinguishing between evidence and proof and explaining their solutions to problems involving a number of features or variables. **Number and Algebra**

Pre Foundation Stage Students count, order, combine, increase and decrease quantities when solving problems in practical contexts. They read and write the numbers involved. Students count sets of objects reliably, and use mental recall of addition and subtraction facts to 10. They begin to understand the place value of each digit in a number and use this to order numbers up to 100. They choose the appropriate operation when solving addition and subtraction problems. They use the knowledge that subtraction is the inverse of addition. They use mental calculation strategies to solve number problems involving money and measures. They recognise sequences of numbers, including odd and even numbers.

Foundation Stage 1 Students show understanding of place value in numbers up to 1000 and use this to make approximations. They begin to use decimal notation, in the context of measures and money, and to recognise negative numbers in practical contexts such as temperature. Students use mental recall of addition and subtraction facts to 20 in solving problems involving larger numbers. They add and subtract numbers with two digits mentally and numbers with three digits using written methods. They use mental recall of the 2, 3, 4, 5 and 10 multiplication tables and derive the associated division facts. They solve whole-number problems involving multiplication or division including those that give rise to remainders. They use simple fractions that are several parts of a whole and recognise when two simple fractions are equivalent. Students use their understanding of place value to mentally multiply and divide whole numbers by 10 or 100. When solving number problems, they use a range of mental methods of computation with the four operations, including mental recall of multiplication facts up to 10 x 10.

Foundation Stage 2 When solving number problems, they use a range of mental methods of computation with the four operations, including mental recall of multiplication facts up to 10 x 10 and quick derivation of corresponding division facts. They select efficient strategies for addition, subtraction, multiplication and division. They recognise approximate proportions of a whole and use simple formulae expressed in words. Students use their understanding of place value to multiply and divide whole numbers and decimals. They order, add and subtract negative numbers in context. They use and interpret coordinates in all four quadrants.

Foundation Stage 3 Students use all four operations with decimals to two places. They solve simple problems involving ratio and direct proportion. They calculate fractional or percentage parts of quantities and measurements, using a calculator where appropriate. They construct, express in symbolic form and use simple formulae involving one or two operations. They use brackets appropriately. Students order and approximate decimals when solving numerical problems. They evaluate one number as a fraction or percentage of another. They find and describe in words the rule for the next term or nth term of a sequence where the rule is linear.

Foundation Stage 4 Students order and approximate decimals when solving numerical problems and equations, using trial and improvement methods. They understand and use the equivalences between fractions, decimals and percentages, and calculate using ratios in appropriate situations. They add and subtract fractions by writing them with a common denominator. They formulate and solve linear equations with whole-number coefficients. They represent mappings expressed algebraically, and use Cartesian coordinates for graphical representation interpreting general features. When making estimates,

students round to one significant figure and multiply and divide mentally. They solve numerical problems involving multiplication and division with numbers of any size, using a calculator efficiently and appropriately.

Foundation Stage 5 Students understand the effects of multiplying and dividing by numbers between 0 and 1. They understand and use proportional changes, calculating the result of any proportional change using only multiplicative methods. They find and describe in symbols the next term or nth term of a sequence where the rule is quadratic. They use algebraic and graphical methods to solve simultaneous linear equations in two variables. Students solve problems that involve calculating with powers, roots and numbers expressed in standard form. They manipulate algebraic formulae, equations and expressions, finding common factors and multiplying two linear expressions. They sketch and interpret graphs of linear and quadratic. Students choose to use fractions or percentages to solve problems involving repeated proportional changes or the calculation of the original quantity given the result of a proportional change. They evaluate algebraic formulae or calculate one variable, given the others, substituting fractions, decimals and negative numbers. They solve inequalities in two variables. They sketch and interpret graphs of cubic and reciprocal functions, and graphs that model real situations. They solve simultaneous equations in two variables where both equations are linear. They solve problems using intersections and graphs.

Beyond Foundation Stage Students understand and use rational and irrational numbers. They determine the bounds of intervals. They understand and use direct and inverse proportion. In simplifying algebraic expressions, they use rules of indices for negative and fractional values. In finding formulae that approximately connect data, they express general laws in symbolic form. They solve simultaneous equations in two variables where one equation is linear and the other is quadratic.

Shape and Space

Pre Foundation Stage When working with 2-D and 3-D shapes, students use mathematical language to describe properties and positions. They measure and order objects using direct comparison, and order events. Students use mathematical names for common 3-D and 2-D shapes and describe their properties, including numbers of faces, edges and vertices. They distinguish between straight and turning movements, recognise angle as a measurement of turn, and right angles in turns. They begin to use everyday non-standard and standard units to measure length and mass.

Foundation Stage 1 Students classify 3-D and 2-D shapes in various ways using mathematical properties such as reflective symmetry for 2-D shapes. They use non-standard units, standard metric units of length including finding perimeters, capacity and mass, and standard units of time, in a range of contexts. They reflect simple shapes in a mirror line. They choose and use appropriate units and tools, interpreting, with appropriate accuracy, numbers on a range of measuring instruments.

Foundation Stage 2 Students use and make geometric 2-D and 3-D patterns, scale drawings and models in practical contexts. They find areas of simple shapes. They identify all the symmetries of 2-D shapes. They make sensible estimates of a range of measures in relation to everyday situations.

Foundation Stage 3 When constructing models and drawing or using shapes, students measure and draw angles to the nearest degree and use language associated with angles. They know the angle sum of a triangle and that of angles at a point. They convert one metric unit to another. They understand and use the formula for the area of a rectangle. Students recognise and use common 2-D representations of 3-D objects. They know and use the properties of quadrilaterals. They devise instructions for a computer to generate and transform shapes and paths. They understand and use appropriate formulae for areas of plane rectilinear figures and volumes of cuboids when solving problems.

Foundation Stage 4 They solve problems using angle and symmetry, properties of polygons and angle properties of intersecting and parallel lines, and explain these properties. They devise instructions for a computer to generate and transform shapes and paths. They understand and use appropriate formulae for finding circumferences and areas of circles when solving problems. They appreciate the imprecision of measurement and recognise that a measurement given to the nearest whole number may be inaccurate by up to one half in either direction. They understand and use compound measures, such as speed.

Foundation Stage 5 Students understand and apply Pythagoras' theorem when solving problems in two dimensions. They calculate lengths, areas and volumes in plane shapes and right prisms. They enlarge shapes by a fractional scale factor, and appreciate the similarity of the resulting shapes. They determine the locus of an object moving according to a rule. Students understand and use congruence and mathematical similarity. They use sine, cosine and tangent in right-angled triangles when solving problems in two dimensions. Students sketch the graphs of sine, cosine and tangent functions for any angle. They calculate lengths of circular arcs and areas of sectors. They appreciate the continuous nature of scales that are used to make measurements.

Beyond Foundation Stage Students sketch the graphs of sine, cosine and tangent functions for any angle, and generate and interpret graphs based on these functions. They use sine, cosine and tangent of angles of any size, and Pythagoras' theorem when solving problems in two and three dimensions. They construct formal geometric proofs. They calculate the surface area of cylinders and volumes of cones and spheres.

Statistics

Pre Foundation Stage Students sort objects and classify them, demonstrating the criterion they have used. They collect data to answer questions. Students sort objects and classify them using more than one criterion. When they have gathered information to answer a question or explore a situation, students record results in simple lists, tables, diagrams and block graphs, in order to communicate their findings.

Foundation Stage 1 Students extract and interpret information presented in simple tables and lists. They construct charts and diagrams to communicate information they have gathered for a purpose, and they interpret information presented to them in this form. Students generate and answer questions that require the collection of discrete data which they record using a frequency table. They understand and use an average and range to describe sets of data. They construct and interpret simple line graphs.

Foundation Stage 2 Using technology where appropriate: students group data in equal class intervals if necessary, represent collected data in frequency diagrams and interpret such diagrams. Students understand and use the mean of discrete data. They compare two simple distributions using the range and one of the mode, median or mean. They understand and use the probability scale from 0 to 1.

Foundation Stage 3 Students interpret graphs and diagrams, including pie charts, and draw conclusions. They collect and record continuous data, choosing appropriate equal class intervals over a sensible range to create frequency tables. They construct and interpret frequency diagrams. They construct pie charts. They find and justify probabilities and approximations to these by selecting and using methods based on equally likely outcomes and experimental evidence, as appropriate. They understand that different outcomes may result from repeating an experiment.

Foundation Stage 4 They draw conclusions from scatter diagrams, and have a basic understanding of correlation. They use measures of average and range, with associated frequency polygons, as appropriate, to compare distributions and make inferences. When dealing with a combination of two

experiments, they identify all the outcomes. When solving problems, they use their knowledge that the total probability of all the mutually exclusive outcomes of an experiment is 1.

Foundation Stage 5 Students specify hypotheses and test them by designing and using appropriate methods that take account of variability or bias. They determine the modal class and estimate the mean, median and range of sets of grouped data, selecting the statistic most appropriate to their line of enquiry. They understand relative frequency as an estimate of probability and use this to compare outcomes of experiments. Students interpret and construct cumulative frequency tables and diagrams. Students estimate the median and interquartile range and use these to compare distributions and make inferences. They understand how to calculate the probability of a compound event and use this in solving problems. Students interpret and construct histograms

Beyond Foundation Stage Students understand how different methods of sampling and different sample sizes may affect the reliability of conclusions drawn. They select and justify a sample and method to investigate a population. They recognise when and how to work with probabilities associated with independent, mutually exclusive events.

<u>MUSIC</u>

Each strand of the assessment criteria is addressed separately (in line with GCSE Music). Summative assessments take place once per term, assessing a different strand of the criteria. For this reason progress may not appear as linear. For example, a student who is a natural performer but less confident composer may receive a higher level in autumn than they do in spring. **Performing Music Composing Music Understanding Music** BFS Technical Control (Accuracy) Selection and use of elements (at least two of Ability to **describe and compare** musical Exceptional ability to demonstrate rhythm, metre, texture, melody, harmony, tonality, features in listening tasks, using appropriate vocabulary. - Ability to explore the contexts, technical control, with excellent accuracy timbre, dynamics, phrasing, articulation structure (pitch, rhythm, intonation) and fluency. and form) is exceptionally creative and effective. origins and traditions of different musical styles Secure understanding of treble clef demonstrating a **sophisticated understanding** of Expression and Interpretation composition. - The selection and use of elements is notation - Ability to evaluate the success of their Exceptional ability to demonstrate exceptionally perceptive and insightful: entirely work and set realistic targets for refinement. appropriate to the intentions for the music, including expression and interpretation, with an excellent the suggested audience/occasion. and assured sense of style and attention to The composition sounds finished with detail. excellent technical and expressive control throughout. FS5 Technical Control (Accuracy) Selection and use of elements (at least two of Competent ability to identify different rhythm, metre, texture, melody, harmony, tonality, Highly developed ability to demonstrate genres of music and their features in a listening task. - Competent evaluation of how venue, technical control, with high levels of accuracy timbre, dynamics, phrasing, articulation structure and form) is highly creative and effective, (pitch, rhythm, intonation) and fluency. occasion and purpose affect the way music is created, performed and heard. demonstrating a coherent understanding of **Competent** grasp of treble clef notation Expression and Interpretation composition. Balanced evaluation to consider Highly developed ability to demonstrate The selection and use of these elements is expression and interpretation, with a highly highly perceptive and insightful: clearly appropriate successful/nonsuccessful outcomes and improve to the intentions for the music, including the developed, secure sense of style and attention their own and others' work suggested audience/occasion. to detail. The composition requires very little more to A more frequent lack of sensitivity sound finished, with consistent technical and towards the expressive and interpretative expressive control throughout. demands of the music will result in a mark at the lower end of this band. Technical Control (Accuracy) - Selection and use of elements (at least two of rhythm, - Competent knowledge and understanding of the FS4 - Secure ability to demonstrate technical metre, texture, melody, harmony, tonality, timbre, musical elements and can recognise some in control dynamics, phrasing, articulation structure and form) listening tasks.

	 Moderate accuracy (pitch, rhythm, intonation) and fluency. Expression and Interpretation Secure ability to demonstrate expression and interpretation, with a moderately secure sense of style and attention to detail. Moderate lack of sensitivity towards the expressive and interpretative demands of the music will inhibit how well the character of the music is conveyed. 	shows secure creativity and effectiveness, demonstrating a sound understanding of composition The selection and use of these elements shows secure perception and insight: almost always appropriate to the intentions for the music, including the suggested audience/ occasion. - The composition sounds mostly finished, but with some further work required: technical and expressive control is not always consistent.	 Ability to identify some genres of music and some of their features in a listening task Ability to recognise rhythmic musical symbols (crotchets, minims etc.) Basic understanding of notation. Ability to suggest improvements to their own and others' work.
FS3	 Technical Control (Accuracy) Moderate ability to demonstrate technical control. Limited accuracy (pitch, rhythm, intonation) and fluency. Expression and Interpretation Moderate ability to demonstrate expression and interpretation, with a basic sense of style and attention to detail. Limited sensitivity towards the expressive and interpretative demands of the music A performance which has some sense of character. 	 Selection and use of (at least two of rhythm, metre, texture, melody, harmony, tonality, timbre, dynamics, phrasing, articulation structure and form) is moderately creative and effective, demonstrating a moderate understanding of composition The selection and use of these elements is moderately perceptive and insightful: largely appropriate to the intentions for the music, including the suggested audience/occasion. The composition sounds mostly finished, but with some further work required: occasionally lacks coherence, technical and expressive control is limited and not always consistent. 	 Adequate knowledge and understanding of some musical elements Adequate use of technical and subject specific vocabulary Ability to recognise a variety of different instrument sounds, knowing instrumental families Ability to recognise rhythmic musical symbols (crotchets, minims etc.) Ability to make improvements to their own work

FS2	 Technical Control (Accuracy) Basic ability to demonstrate technical control - Some accuracy (pitch, rhythm, intonation) and fluency. Expression and Interpretation Some ability to demonstrate expression and interpretation. Basic sense of style and minimal attention to detail. 	 Selection and use of elements (at least two of rhythm, metre, texture, melody, harmony, tonality, timbre, dynamics, phrasing, articulation structure and form) shows limited creativity and effectiveness, demonstrating a basic understanding of composition. The selection and use of these elements shows limited perception and insight: sometimes inappropriate to the intentions for the music, including the suggested audience/occasion. 	 Basic knowledge and understanding of some musical elements Basic use of technical and subject specific vocabulary Ability to recognise a range of instrument sounds. Ability to recognise basic musical symbols (treble clef, stave etc) Ability to make some improvements to their own work
	 Some sensitivity towards the expressive and interpretative demands of the music. A performance, which has limited sense of character. 	- The composition sounds unfinished : often lacking coherence, basic and infrequent technical and expressive control.	
FS1	 Technical Control (Accuracy) Limited ability to demonstrate technical control Minimal accuracy (pitch, rhythm, intonation) and fluency. Expression and Interpretation Limited ability to demonstrate expression and interpretation. A rudimentary sense of style and minimal attention to detail. Minimal sensitivity towards the expressive and interpretative demands of the music A performance, which has virtually no sense of character. 	 Selection and use of elements (at least two of rhythm, metre, texture, melody, harmony, tonality, timbre, dynamics, phrasing, articulation structure and form) shows minimal creativity and effectiveness, - Demonstrates a very simplistic understanding of composition. The selection and use of elements shows minimal perception and insight: Limited understanding of the intentions for the music, including the suggested audience/occasion. The selection and use of elements shows minimal perception and use of elements for the music, including the suggested audience/occasion. Limited evidence of technical and expressive control. The selection and use of elements shows minimal perception and insight: largely inappropriate to the intentions for the music, including the suggested audience/occasion. Incompleteness within the composition 	 Limited knowledge and understanding of the elements of music Limited use of technical and subject specific vocabulary Ability to recognise some simple instrument sounds

	<u>PE</u>				
FS		Knowledge	Demonstrate Skills	Decision Making & Application	Evaluation
1	Limited	Recall basic information such as teaching points, basic rules, etc.	Basic skills lacking in technical accuracy and timing. May need extra support	Struggles to respond to playing / performing conditions. Fails to create opening to take on opportunities	Identify some personal strengths and areas to develop in own performance
2	Inconsistent	Identify basic knowledge points: key terms, rules, techniques etc.	Can perform basic skills in isolation; these sometime may break down when under pressure.	Misjudgements are made Can apply tactical changes but not successful Not able to capitalise on opponents weaknesses	Able to identify own and others strengths and areas to develop during isolated practice
3	Competent	Understand key terms and knowledge points and be able summarise learning	Able to demonstrate skills in competitive situations May only be able to demonstrate or repeat a basic skill	Attempts to adapt performance to opponent with some success. Applies tactical changes in response to opponents actions (with some errors)	Able to identify your own and others strengths and areas to develop in a game or conditioned game
4	Consistent	A broad range of knowledge and understanding from key areas such as rules, skills, fitness, etc.	Demonstrates skills with various levels of consistency Chooses appropriate skill in most situations Starting to be effective in a game	Starting to select appropriate tactics to bring about change in performance. Able to respond to opponents actions successfully	Able to explain the impact that strengths and areas to develop have on a game and suggest improvements

5	Effectiv	Be able to link a range of knowledge and understanding from key areas such as rules, skills, fitness, etc.	Perform skills consistently when under pressure Starting to influence a game	Creates opportunities to dominate in performances Effectively winning games	Can explain strengths and areas to develop, looking for patterns in performance- give recommendations to improve performance through skills practices
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SCIENCE – BIOLOGY

Pre-Foundation Stage

- Students use their knowledge about living things to describe the basic conditions [for example, a supply of food, water, air, light] that animals and plants need in order to survive.
- They **recognise** that living things grow and reproduce through the study of plant, animal reproduction. Students should be able to name the main organs involved in plant and animal reproduction.
- They sort living things into groups, using simple features. They describe the basis for their groupings [for example, number of legs, shape of leaf]. Identifying objects as living or non-living using MRSGREN.
- They recognise that different living things are found in different places [for example, ponds, woods].
- Students use their knowledge and understanding of basic life processes [for example, growth, reproduction] when they **describe** differences between living and non-living things.
- Recognise and provide simple explanations for changes in living things [for example, diet affecting the health of humans or other animals, lack of light or water altering plant growth, drug and alcohol affecting growth of foetus].
- They **identify** ways in which an animals and plants are suited to their environment [for example, a fish having fins to help it swim, Cacti having spines].

Foundation Stage 1

- Students **describe** some processes and phenomena related to organisms, their behaviour and the environment, drawing on scientific knowledge and understanding and using appropriate terminology, for example using food chains to describe feeding relationships in terms of transfer of energy between plants and animals in a habitat. Plants requiring sunlight as a producer in order to be the source of chemical energy for other organisms for respiration.
- They recognise that evidence can support or refute scientific ideas, such as in the identification and grouping of living things.
- They recognise some applications and implications of science, such as the use of predators to control pest populations. The use of pesticides on crops leading to bioaccumulation. Identify a way to treat bacterial infections through antibiotics.

Foundation Stage 2

- Students **describe** processes and phenomena related to organisms, their behaviour and the environment, drawing on abstract ideas and using appropriate terminology, for example the main functions of plant and animal organs and how these functions are essential and give examples of organ systems which could include; the circulatory, respiratory and digestive system for animals and the main organs of a flowering plant related to reproduction.
- They **explain** processes and phenomena, in more than one step or using a model, such as the main stages of the life cycles of humans and flowering plants, describe the route that food takes through the digestive system.

- They **apply** and use knowledge and understanding in familiar contexts, such as different organisms being found in different habitats because of differences in environmental factors, for example give a range of reasons why a camel can live in a hot environment and a polar bear to live in a cold environment.
- They **recognise** that both evidence and creative thinking contribute to the development of scientific ideas, for example the work of Carl Linnaeus on developing a system for classifying living organisms.
- They **describe** applications and implications of science, such as solving some of the health problems that arise when organ damage occurs.

Foundation Stage 3

- Students **describe** processes and phenomena related to organisms, their behaviour and the environment, using abstract ideas and appropriate terminology, for example simple cell structure and function. Students can use the word equation for photosynthesis and respiration.
- They take account of a number of factors or use **abstract** ideas or models in their explanations of processes and phenomena, such as environmental factors affecting the distribution of organisms in habitats. Describe how a model lung can explain the mechanism of breathing and its importance for providing a reactant needed for respiration.
- They **apply** and use knowledge and understanding in unfamiliar contexts, such as a food web in a habitat. Identify the different organs within an organism and use them to explain the different organ systems and their importance.
- They **describe** some evidence for some accepted scientific ideas, such as the causes of variation between living things for example; the research done by Watson and Crick. A comparison can be made between creationism and evolution and the evidence for each described.
- They **explain** the importance of some applications and implications of science, such as the use of selective breeding, an explanation for bioaccumulation, Eutrophication and their impact on the environment and the organisms living there.

Foundation Stage 4

- Students **describe** a wide range of processes and phenomena related to organisms, their behaviour and the environment, using abstract ideas and appropriate terminology and sequencing a number of points, for example recalling the balanced symbol equation for respiration and photosynthesis and drawing a pyramid of numbers and biomass using data provided.
- They make links between different areas of science in their explanations. They apply and use more abstract knowledge and understanding, in a range of contexts, such as inherited and environmental variation. **Explain** the use of enzymes in digestion and give an example of an enzyme in the human body. **Describe** how carbon can move between living organisms and the atmosphere.
- They explain how evidence supports some accepted scientific ideas, such as the structure and function of cells. They explain, using abstract ideas where appropriate, the importance of some applications and implications of science for example the implication of antibiotic resistance on health care.
 Explore the ethical issues surrounding subjects such as; cloning, genetic engineering.

Foundation Stage 5

- Students demonstrate **extensive** knowledge and understanding related to organisms, their behaviour and the environment. They use and apply this effectively in their descriptions and explanations, identifying links between topics, for example relating cellular structure of organs to their associated life processes. How organ systems work together for the functioning of the human body for example; the circulatory and respiratory systems.
- They interpret, evaluate and synthesise data from a range of sources and in a range of contexts, for example environmental data from fieldwork, using quadrats to estimate populations and biodiversity. Interpreting and synthesising data for predator-prey relationships, the effect of temperature and pH on enzymes.
- They show they understand the relationship between evidence and scientific ideas, and why scientific ideas may need to be changed, for example the short-term and long-term effects of pollution and the links to global warming. Explain how scientific ideas have changed, based on experimental evidence, for example Van Helmont.
- They **describe** and **explain** the importance of a wide range of applications and implications of science, such as relating photosynthesis and respiration to the cycling of carbon from living to non-living things including how carbon can be locked up, e.g. Fossil Fuels and carbon sinks. Explain the impact of deforestation, increased population, and combustion on levels of carbon in the atmosphere.

Beyond Foundation Stage

- Students demonstrate both breadth and depth of knowledge and understanding of organisms, their behaviour and the environment. They apply this effectively in their descriptions and explanations, for example; explaining the advantage of different forms of chlorophyll for photosynthesis. The ability to explain why different types of cells contain different organelles. For example, the need for muscle cells to contain many mitochondria.
- They interpret, evaluate and synthesise data, from a range of sources in a range of contexts, and apply their understanding to a wide range of biological systems.
- They demonstrate an understanding of how scientific knowledge and understanding changes, building on processes such as questioning, investigating and evidence-gathering, for example in the study of global climate change through manipulating data to identify trends and suggest correlation between data.
- They describe and explain the importance of a wide range of applications and implications of science in familiar and unfamiliar contexts, such as addressing problems arising from global climate change, explaining in detail the impact on environment, economic and social issues arising. Suggest and explain how problems can be combatted by science. For example, cloning pigs for human transplants, genetically engineering crops to help third world problems, producing biofuels for a sustainable resource

Exceptional Performance

• Students must be working consistently above and beyond all the descriptors listed above.

SCIENCE – CHEMISTRY

Pre-Foundation Stage

Students identify a range of common materials and know about some of their properties. They describe similarities and differences between materials. They sort materials into groups and describe the basis for their groupings in everyday terms [for example, shininess, hardness, smoothness].

They describe ways in which some materials are changed by heating or cooling or by processes such as bending or stretching.

Students use their knowledge and understanding of materials when they describe a variety of ways of sorting them into groups according to their properties.

Examples include: elements, rocks, metals etc.

They explain simply why some materials are particularly suitable for specific purposes [for example, glass for windows, copper for electrical cables].

They recognise that some changes [for example, the freezing of water] can be reversed and some [for example, the baking of clay] cannot, and they classify changes in this way.

Foundation Stage 1

Students recall keywords when supplied with a definition

Students describe some processes and phenomena related to materials and their properties, drawing on scientific knowledge and understanding. For example;

- Describing changing state by using scientific terminology such as freezing, melting etc.
- Describing observations of a chemical reaction,
- Describing properties e.g. malleable, brittle, high melting point etc.

Students recognise that evidence can support or refute scientific ideas, such as;

- The classification of reactions as reversible and irreversible.
- Brownian motion supports the theory of atoms.
- Chemical tests (e.g. limewater) can be used to identify products made in a chemical reaction.
- An increase in temperature supports the idea that chemical reactions release energy.
 A change in indicator colour identifies acids, alkalis and neutral solutions

Students recognise some applications and implications of science, such as;

• The safe use of acids and alkalis (implications are skin burns and harmful to eyes)
Plants can be used as medicines

Foundation Stage 2

Students describe processes and phenomena related to materials, their properties and the Earth, drawing on abstract ideas and using appropriate terminology, for example;

- Describing changing state in terms of particles.
- Describing observations of a chemical reaction and state what causes these observations.
- Describing combustion of fuels, using ideas about reacting with oxygen and energy being released.
- Describe a pattern in reactivity by drawing on the outcomes of displacement reactions.
- · Describing elements, compounds and mixtures using particle diagrams
- Identifying an acid or alkali using indicators

They explain processes and phenomena, in more than one step or using a model, such as;

- Drawing a shell diagram to represent an atom.
- When provided with the names of reactants and products, construct a word equation to show what happens in a chemical reaction. Explaining melting, evaporating etc. using the particle model.

They recognise that both evidence and creative thinking contribute to the development of scientific ideas, such as;

• Basing separation methods for mixtures on physical and chemical properties. D Patterns helped Mendeleev develop the periodic table.

They describe applications and implications of science, such as;

• The uses of metals based on their specific properties

The benefits and drawbacks of the use of fossil fuels.

Foundation Stage 3

Students describe processes and phenomena related to materials and their properties, using abstract ideas and appropriate terminology, for example;

- Describing changing state in terms of particles.
- · Describing observations of a chemical reaction and state what causes these observations.
- Describing combustion of fuels, using ideas about reacting with oxygen and energy being released.
- Describe a pattern in reactivity by drawing on the outcomes of displacement reactions. Describe elements as solid, liquid or gases based on melting and boiling points.

They take account of a number of factors or use abstract ideas or models in their explanations of processes and phenomena, for example;

- Drawing a shell diagram to represent an atom.
- Using observations or use reactants or products provided to construct a word equation in order to model a chemical reaction.
- Explaining melting, evaporating etc. using the particle model.
- Use chemical formula to deduce the elements present and the number of atoms.

They explain the importance of some applications and implications of science, for example;

- The production of new materials with specific desirable properties
- The separating of crude oil to obtain useful fuels and other products
- Uses of carbonates to reduce indigestion

Foundation Stage 4

Students describe a wide range of processes and phenomena related to materials and their properties, using abstract ideas and appropriate terminology and sequencing a number of points, for example

• Describe and explain the process of chromatography

They make links between different areas of science in their explanations, such as

- · Between the nature and behaviour of materials and their particles.
- Explaining melting, evaporating etc. using the particle model and ideas about energy breaking forces between particles.
- Using ideas about changing states and the particle model to explain how distillation works

They apply and use more abstract knowledge and understanding, in a range of contexts, such as;

- The particle model of matter.
- Symbols and formulae for elements and compounds.
- Naming compounds from chemical formula.
- Using balanced symbol equations to represent chemical reactions.

They explain how evidence supports some accepted scientific ideas, such as

• Reactions of metals with acid or water support the reactivity series of metals.
Reflection of alpha particles supports the idea of an atom having a nucleus.

They explain, using abstract ideas where appropriate, the importance of some applications and implications of science, such as the need to consider the availability of resources, and environmental effects, in the production of energy and materials.

Foundation Stage 5

Students demonstrate extensive knowledge and understanding related to materials and their properties. They use and apply this effectively in their descriptions and explanations, identifying links between topics, for example

- Students link understanding of atoms and bonds with energy and temperature changes to describe reactions as exothermic or endothermic.
- Students use ideas about particles and energy to explain why increasing temperature speeds up the rate of a chemical reaction.
 - Describe and explain the process of continental drift.

They represent common compounds by chemical formulae and use these formulae to form balanced symbol equations for reactions.

They show they understand the relationship between evidence and scientific ideas, and why scientific ideas may need to be changed. For example;

• Newlands periodic table was changed due to Mendeleev's version including gaps for undiscovered elements.
Rutherford's gold leaf experiment disproved the plum pudding model.

They describe and explain the importance of a wide range of applications and implications of science. (Consistent level 6's for this thread would suggest that students and explain a **wide range** of applications and implications)

Beyond Foundation Stage

They apply this effectively in their descriptions and explanations, identifying links and patterns within and between topics, for example relating the properties of materials to the nature of their constituent particles.

They interpret, evaluate and synthesise data from a range of sources in a range of contexts, and apply their understanding to a wide range of chemical systems, such as explaining chemical behaviours that do not fit expected patterns.

They demonstrate an understanding of how scientific knowledge and understanding changes, building on processes such as questioning, investigating and evidence-gathering.

They describe and explain the importance of a wide range of applications and implications of science in familiar and unfamiliar contexts.

Exceptional Performance

Students must be working consistently above and beyond all the descriptors listed above.

SCIENCE – PHYSICS

Pre-Foundation Stage

Students communicate observations of changes in light, sound or movement that result from actions for example,

- switching on a simple electrical circuit,
- pushing and pulling objects

They recognise that sound and light come from a variety of sources and name some of these.

- TV/ radio
- Torch
- Sun
- People

Students know about a range of physical phenomena and recognise and describe similarities and differences associated with them for example

• sound, light and water waves

They compare the way in which devices for example,

- bulbs
- motors
- resistors

work in different electrical circuits.

They compare the

- brightness or colour of lights
- the loudness or pitch of sounds from looking at a waveform.
- the current or voltage from looking at ammeters or voltmeters

They compare the movement of different objects in terms of speed or direction.

Students use their knowledge and understanding of physical phenomena to link cause and effect in simple explanations for example,

- a bulb failing to light because of a break in an electrical circuit,
- the direction or speed of movement of an object changing because of a push or a pull,
- an object being weightless because of distance from a gravitational field due to a massive object such as a planet.

They begin to make simple generalisations about physical phenomena for example,

- explaining that sounds they hear become fainter the further they are from the source
- or gravitational fields become fainter the further they are from the source
- or EM radiation become fainter the further they are from the source

Foundation Stage 1

Students describe some processes and phenomena related to energy, forces and space, drawing on scientific knowledge and understanding and using appropriate terminology, for example:

• The observed position of the sun in the sky over the course of a day. Describe what is emitted from the nucleus in radioactive decay.

They recognise that evidence can support or refute scientific ideas,

- such as sounds being heard through a variety of materials.
- recognise CMBR and Redshift support big bang theory.
- moons of Jupiter and phases/ size of Venus supports heliocentric theory and disproves geostationary.

They recognise some applications and implications of science, such as

• the use of electrical components to make electrical devices. magnetic fields and moving wires generates electricity in power stations.

link density to materials needed to make boats.

• link sound topic to how ear defenders work

Foundation Stage 2

Students describe processes and phenomena related to energy, forces and space, drawing on abstract ideas (an idea given in the question or reading off a graph) and using appropriate terminology, for example

• 'balanced forces' or 'unbalanced forces'. Linked to gradient of a graph

They explain processes and phenomena, in more than one step such as

- the operation of an electric bell,
- convection currents,
- the weight of an object on a see-saw (moments), □ life cycle of a star.

They explain processes and phenomena, using a model, such as

- the length of a day or a year.
- Current and voltage in circuits.

They apply and use knowledge and understanding in familiar contexts. E.g.

- moments on a see saw,
- convection in a room or oven,
 wavelength of a water wave
 conduction in a metal rod.
- reflection in a mirror

They recognise that both evidence and creative thinking contribute to the development of scientific ideas, such as

objects being seen when light from them enters the eye. big bang theory

• heliocentric vs geocentric.

They describe applications and implications of science, such as

- the ways sound can be produced and controlled, for example in musical instruments.
- uses of alpha, beta and gamma radiation.
- uses of EM radiation

Read data from graphs

Use formula as given in data sheet e.g. force from f=ma not m from f=ma

Foundation Stage 3

Students describe processes and phenomena related to energy, forces and space, using abstract ideas (they give the idea not given in question or shown on graph) and appropriate terminology, for example:

- Electric current as a way of transferring energy.
- Ionization of atoms by rubbing or ionizing radiation.
- Balanced or unbalanced forces linked to acceleration or constant speed with no hint given They take account of a number of factors in their

explanations of processes and phenomena, for example

- in the relative brightness of stars and planets (due to size and distance).
- · increased strength electromagnet because of number or turns or current or iron core.

They also use abstract ideas or models, for example

- sustainable energy sources
- the refraction of light (model as one side of car slows down in mud or line of soldiers marching).

They apply and use knowledge and understanding in unfamiliar contexts.

- conduction in penguins feet,
- EM radiation wavelength, amplitude etc.,
- reflection linked to phases of the moon convection at the see side.

moments balancing a crane.

They describe some evidence for some accepted scientific ideas,

• (conservation of energy) such as the transfer of energy by light, sound or electricity, a 🛛 (wave model of light) the refraction and dispersion of light.

They explain the importance of some applications and implications of science, such as

- the responsible use of unsustainable sources of energy.
- safety when using lonising radiation
- safety with loud noise

Manipulate formulas to change the subject and get correct numerical answer.

Get correct unit (just one term m, s, kg, N etc. not m/s or Nm)

Foundation Stage 4

Students describe a wide range of processes and phenomena related to energy, forces and space, using abstract ideas and appropriate terminology and **sequencing** a number of points, for example

- how energy is transferred by radiation or by conduction.
- electric bell workings
- life of different stars

They make links between different areas of science in their explanations, such as

- between electricity and magnetism.
- static electricity and ionising radiation
- pressure (hydraulics) and moments

They apply and use more abstract knowledge and understanding in a range of contexts, such as the appearance of objects in different colours of light.

• resistance in parallel circuits

They explain how evidence supports some accepted scientific ideas, such as

• the role of gravitational attraction in determining the motion of bodies in the solar system.

They explain, using abstract ideas where appropriate, the importance of some applications and implications of science, such as

• the uses of electromagnets
uses of transformers.

Use compound measures appropriately. Such as

- m/s for speed,
- Nm for moment
- N/m² for pressure

Foundation Stage 5

Students demonstrate extensive knowledge and understanding related to energy, forces and space, for example

- the passage of sound waves through a medium.
- flow of current in a parallel circuit

They use and apply this effectively in their descriptions and explanations, identifying links between topics.

They interpret, evaluate and synthesise data from a range of sources and in a range of contexts. They show they understand the relationship between evidence and scientific ideas, and why scientific ideas may need to be changed, such as

• the developing understanding of the structure of the solar system. [Heliocentric or geocentric]

They describe and explain the importance of a wide range of applications and implications of science, such as

• relating the dissipation of energy during energy transfer to the need to conserve limited energy resources. They carry out multi-step calculations

- force at different side of a moment system.
- force at different side of hydraulic system
- initial or final speed rather than change in speed.
- more than 3 term questions

Beyond Foundation Stage

Students demonstrate both breadth and depth of knowledge and understanding of energy, forces and space. They apply this effectively in their descriptions and explanations, identifying links and patterns within and between topics, for example

□ understanding how models like the particle model are useful in explaining physical phenomena, ○ such as how sweating causes cooling. ○ density ○ speeds of sound

They interpret, evaluate and synthesise data from a range of sources in a range of contexts and apply their understanding to a wide range of data on energy efficient physical systems.

They demonstrate an understanding of how scientific knowledge and understanding changes, building on processes such as questioning, investigating and evidence gathering, for example through the role of artificial satellites and probes in communications and space exploration and theories about the start of the universe, big bang or steady state theory.

They describe and explain the importance of a wide range of applications and implications of science in familiar and unfamiliar contexts, such as alternative methods of electricity generation.

Exceptional Performance

Students must be working consistently above and beyond all the descriptors listed above.