

Thunberg Class	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Rivers	Earthquakes	Мауа	Egyptians	Romans	Deforestation
Enrichment, Trips or Visits			Chocolate Museum Palmers Green Mosque	British Museum	Verulamium	
English Key text • genres • grammar	Explanatory texts What is a river and how it is formed? - Geography link Grammar Fronted adverbials Cohesion using nouns and pronouns Adverbs of frequency Wide range of subordinating conjunctions used Noun phrases further expanded by adding adjectives and prepositions to modify the noun Poetry River poetry- Geography link	Letters Letters from the Iron man and Hogarth Book study unit Grammar Paragraphs to organise ideas Effective use of expanded noun phrases Past perfect Past perfect progressive Adverbs of time, place and manner Conjunctions of time, place and manner Prepositions of time, place and manner Instructions How to make a buzzer game-Science link Grammar Fronted adverbials Cohesion using nouns and pronouns Adverbs of frequency Wide range of subordinating conjunctions used Noun phrases further expanded by adding adjectives and prepositions to modify the noun	Fantasy story Own sweetie world Book study unit Grammar Adverbs to express time, place and cause Prepositions to express time, place and cause Conjunctions to express time, place and cause Figurative language Appropriate choice of pronoun or noun Apostrophe to mark plural possession	Biography Howard Carter and the discovery of King Tut- History link Grammar Conjunctions to express time Possessive apostrophe for plural possession Poetry The discovery of King Tuts tomb- History link	Historical stories Stories set in the past. Queen Boudicca- History link Grammar Adverbs to express time, place and cause Prepositions to express time, place and cause Conjunctions to express time, place and cause Figurative language Appropriate choice of pronoun or noun Apostrophe to mark plural possession	Diary Writing Diary writing for Miah going to her new family Book study unit Grammar Fronted adverbials Paragraphs to organise ideas Effective use of expanded noun phrases Past perfect Past perfect progressive Adverbs of time, place and manner Conjunctions of time, place and manner Prepositions of time, place and manner Persuasive writing Writing to Nestle about the deforestation for a new chocolate factory- History link



Yearly Overview: Year 4

2021 - 2022

Node Node

Maths

- number
- concept

Place Value

Recognise the place value of each digit up to a four-digit number

Order and compare numbers beyond 1000

Find 10 or 100 more or less than a given number.

Identify, represent and estimate numbers using different representations.

Addition and subtraction

Add and subtract numbers with up to 4 digits using the formal written methods

Estimate and use inverse operations to check answers to a calculation

Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

Multiplication and Division

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Count in multiples of 6 and 7.

Recall multiplication and division facts for

Place Value

Count in multiples of 9, 25 and 1000.

Round any number to the nearest 10, 100 or 1000.

Recall multiplication and division facts up to 12x12.

Solve number and practical problems that involve all of the above and with increasingly large positive numbers.

Fractions and decimals

Count up and down in hundredths.

Recognise and show, using diagrams, families of common equivalent fractions.

Solve simple measure and money problems involving fractions.

Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$.

Recognise and write decimal equivalents of any number of tenths and hundredths.

Find the effect of dividing a one or two-digit number by 10 and 100

Solve simple measure and money problems involving fractions and decimals to two decimal places.

Conversion

Convert between different units of measure.

Place value

Count in multiples of 6, 7, 9, 25 and 1000.

Count backwards through zero to include negative numbers.

Round decimals with one decimal place to the nearest whole number.

Compare numbers with the same number of decimal places.

Identify, represent and estimate numbers using different representations.

Addition and Subtraction

Add and subtract numbers with up to 4 digits.

Estimate and use inverse operations to check answers calculation.

Solve addition and subtraction two-step problems in contexts.

Multiplication & Division

Recall multiplication and division facts for multiplication tables up to 12 x 12.

Use place value, known and derived facts to multiply and divide mentally.

Recognise and use factor pairs and in mental calculation.

Place Value

Find 1000 more or less than a given number.

Count backwards through zero to include negative numbers.

Round any number to the nearest 10, 100, 1000.

Recall multiplication and division facts up to 12x12.

Read roman numerals to 100 (I to C)

Fractions and decimals

Add and subtract fractions with the same denominator.

Solve problems involving increasingly harder fractions to calculate quantities

Recognise and write decimal equivalents of any number of tenths or hundredths.
Count up and down in Hundredths

Compare numbers with the same number of decimal places up to two decimal places.

Solve simple measure and money problems involving fractions and decimals to two decimal places.

<u>Measure</u>

Convert between different units of measure e.g. km-m/hr-min

Place value

Count backwards through zero to include negative numbers and fractions.

Addition and Subtraction

Add and subtract numbers with up to 4 digits using the formal written methods

Use inverse operations to check answers to a calculation.

Solve addition and subtraction two-step problems in contexts.

Multiplication and Division

Recall multiplication and division facts for multiplication tables up to 12 x 12.

Recognise and use factor pairs and commutatively in mental calculations.

Multiplying two-digit and three-digit numbers by a one-digit number using formal written layout.

Divide using formal written method of short division.

Measure

Convert between different units of measure

Estimate, compare and calculate different measures, including money in pounds and pence's.

Place Value

Read Roman numerals to 100 (I to C)

Addition and Subtraction

Add and subtract numbers with up to 4 digits using the formal written methods of columnar

Estimate and use inverse operations to check answers to a calculation.

Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

Multiplication and Division

Recall multiplication and division facts up to 12x12.

Multiply two digit and three digit numbers by a one digit number using formal written method.

Divide using short division.

Solve problems involving multiplying and adding

Measure

Read, write, and convert time between analogue and digital 12- and 24-hour clocks.

Solve problems involving converting

Statistics

Interpret and present discrete and continuous data using



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	multiplication tables up to 12x12. Multiply two digit and three-digit numbers by a one digit number using formal written lay out. Divide using the short division method with exact answers	Estimate, compare and calculate different measures, including money in pounds and pence. Measure Read, write and convert time between analogue and digital 12- and 24-hour clocks. Solve problems involving converting time to hours, minutes, seconds, years and months. Statistics Solve comparisons, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. Divide using formal written method of short division. Solve problems involving multiplying and adding. Geometry Identify acute and obtuse angles Compare and order angles up to two right angles. Describe positions on a 2D grid as coordinates. Describe movements between positions as translations. Plot specified points and draw sides to complete a given polygon.	Measure and calculate the perimeter of a rectilinear figure in m and cm Find the area of rectilinear shapes by counting squares. Statistics Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.	Measure and calculate the perimeter and area of shapes. Geometry Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Identify acute and obtuse angles and compare and order angles Identify lines of symmetry in 2D shapes presented in different orientations. Complete a simple symmetrical figure with respect to a specific line of symmetry. Describe movements between positions as translations of a given unit Plot specified points and draw sides to complete a given polygon.	appropriate graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.
Science • knowledge • skills	How does temperature affect different objects? Classify materials as solids or liquids by observing their properties Plan a fair test investigation to test ideas about melting ice Collect, present and interpret data about melting ice	How does the food we eat fuel our bodies? Investigate where our food goes after it has been eaten Identify the different teeth that humans have and their simple functions Recognise how to look after our teeth and explain its importance	How does temperature affect different objects? Classify materials as solids or liquids by observing their properties Plan a fair test investigation to test ideas about melting ice Collect, present and interpret data about melting ice	Has the invention of electricity made our lives easier? Sort electrical products according to their power source Make and record electric circuits Explain, using a model, how an electrical circuit works	What is sound and how can we manipulate it? explore different ways of making sounds Investigate how sounds travel Explore how we can make instruments louder and quieter Measure how the loudness of a sound changes as the	What is the impact of habitat destruction in other parts of the world? Give examples of positive and negative ways in which humans change the environment Carry out a litter survey, collecting and presenting data



	Define melting and freezing Explain observations of air using scientific knowledge about materials Classify materials as solids, liquids or gases Describe and explain findings from an evaporation investigation Identify different materials from their boiling point Identify where condensation is happening	Construct food chains and webs for a particular habitat describe how food is broken down in the digestive system	Define melting and freezing Explain observations of air using scientific knowledge about materials Classify materials as solids, liquids or gases Describe and explain findings from an evaporation investigation Identify different materials from their boiling point Identify where condensation is happening	Identify and correct problems with circuits Describe what a switch does and how it works Sort materials by testing for a property that makes them suited to replace a wire in a circuit Investigate the link between a material's properties (conductor or insulator) and its use	distance from the source increases Explore the different notes that plucked bands make and discover how to alter the pitch of a sound Explore how we can change the pitch of instruments that are played using air	Research and present information about the impact of litter on animals Demonstrate understanding of the potential human impact on food chains in a UK habitat Explore the impact on food chains and habitats in another part of the world
Computing • knowledge • skills	How do we keep ourselves and our computers safe online? Recognise ways people steal personal information Recognise when someone is trying to steal personal info Analyse how computer 'bots' can impact on daily life Assess the credibility of source on the internet	How have computers supported us with our everyday lives? Research and record information lives Write and execute a program Show an HTML formatted message Share and evaluate articles	How do you control simple programs? Plan and design a program to run a chatbot Create and use a variable to control a sprite Write an algorithm to ask a question in Scratch Use select tool to amend sprite Test and debug a program	How can I use variables to introduce challenge to a game? Use logical reasoning to explain how some simple algorithms work and to detect and correct errors Use repetition and selection blocks Use a variable to create a timer Introduce challenge to a game	How can digital devices enhance the presentation of information? Plan a storyboard Write a script Create props Record and edit a video using appropriate editing software.	What is the difference between coding and programming? Design and plan my own computer game Create sprites, backgrounds for project Use sequence, selection, and repetition in programs Review, improve and debug programs Test and feedback on success of program against stated goal
History • knowledge • skills			Why did the Mayan civilization suddenly come to an end? Explore factors which enabled the Mayan civilization to grow so strong	Were there any other ancient societies as advanced as the Egyptians? Identify Ancient Egyptian sources of evidence and how they discovered?	What lasting impact did the invasion of the Roman Empire have on the United Kingdom? Explore the reasons behind Roman Empire's invasion	



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			Investigate what life was like at the height of the Mayan civilization Explore the importance of sacrifice in Mayan religion	Explore what evidence tell us about life for men, women and children in Ancient Egypt? Draw conclusions on what we learn about the beliefs of the Ancient Egyptians from evidence that has survived Compare the Ancient Egyptians to other ancient societies	Determine and identify important Roman leaders Investigate the reasons why Boudicca stood up to the Romans Explore how the Roman way of life contrasted with the Celtic lifestyle they found when they arrived Explore how the Romans were able to keep control over such a vast empire	
Geography • knowledge • skills	Why do rivers play such an important role in the human and physical geography of our planet? Water cycle Maps and digital mapping of rivers Stages and features of a river The effects of human activity on rivers and flooding	How have earthquakes changed the landscape around them? Explain why earthquakes occur Location of famous earthquakes Measure and scale of earthquake Preparation and effects of earthquakes Identify the help that people need after an earthquake				What is the impact of deforestation? South America: continent, countries, and cities Human and physical features of Brazil compared to the UK Rainforest layers and features Deforestation Amazon Rainforest
Art • knowledge • skills	Artist Study: Andy Warhol. Explore and critique art by Andy Warhol Observe colours and select colour to reflect mood Explore colour different techniques used in the pop era.				Mosaic: Design and create a mosaic based on the style of a Roman Mosaic. Investigate and analyse a range of existing products Understand the historical and cultural development of art forms Mastery of art and design techniques (printing).	Sculpture: Man-made and natural forms of construction Experience surface patterns and textures Discuss own work and work of other sculptors Analyse and interpret natural and manmade forms of construction



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Design and Technology • knowledge • skills	Create initial sketches as a preparation for painting	Structures: Shelters Product: Design and make a shelter to create an earthquake proof building Investigate and analyse different materials used to build shelters Select and use a range of tools to join materials securely	Food: Design and create a new type of chocolate bar Product: A chocolate bar inspired by Charlie and the Chocolate Factory for a target audience Investigate and analyse a range of existing chocolate bars in order to develop a design criteria	Electrical systems: Simple circuits and switches Product: Children's board game to enhance knowledge of the Ancient Egyptians Explore a range of board games and how they have developed over time Investigate the use of simple circuits to enhance the appeal		Design and create a natural or man-made sculpture
		Evaluate the final product for functionality	Research and analyse the nutritional value of different types of chocolate bars Develop a recipe and consider the tools needed to create the chocolate bar. Design a wrapper that appeals to the target audience Evaluate the success of the final product	of board games Construct a circuit with basic components, join and combine materials according to their functional properties and aesthetic qualities		
PE • knowledge • skills	Net / Wall – Challenge Directing the ball. Outdoor and adventurous games: Follow map and symbol Trails.	Trust and Communication activities. Dance. – Challenge	Invasion Games Controlling and receiving. Gym - Challenge	Invasion Games: Keeping possession of the ball. Athletics - Challenge	Dance Characters. Tennis Challenge Gym Receiving Body Weight.	Rounders and Cricket - Challenge Athletics: Developing good running, throwing and jumping techniques.
Music • knowledge • skills	Mumma Mia Listen and Appraise	Glockenspiel Listen and Appraise	Lean on Me Listen and Appraise	The children will be particip	ating in clarinet lessons with	the Enfield Music Service



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	Identify the piece's structure Identify the instruments/voices Find the pulse whilst listening. Perform and share Children can contribute to the performance by singing, playing an instrumental part, improvising or by performing their composition. Record the performance and discuss their thoughts and feelings towards it afterwards. Compose Compose a simple melody using simple rhythms and use it as part of the performance.	Perform and share Children can contribute to the performance by singing, playing an instrumental part, improvising or by performing their composition. Record the performance and discuss their thoughts and feelings towards it afterwards Revise, play and read the notes C, D, E, F + G. Compose Compose Compose using the notes C, D, E, F + G.	Identify the piece's structure: Intro, verse 1, chorus, verse 2, bridge, chorus, bridge, verse 3, outro. Identify the instruments/voices: Male vocal, backing vocal, piano, bass, drums, organ. Find the pulse whilst listening and identify tempo changes, changes in dynamics and texture Perform and share Compose			
RE • knowledge • skills	What is the significance of the Sukkah to Jewish people today?	What is the link between the Qur'an and the Prophet Muhammed?	In what ways do Hindus show their devotion to God?	How does being baptised help Christians feel part of their community?	Why does each faith see God as a different representation?	How does the life of Guru Nanak teach about respect and equality?
	Learn about the importance of Sukkot Understand the key features of a Synagogue. Explain why the Sefer Torah is important. Know the Ten Commandments	Explore Islamic patterns Understand the Qur'an is a sacred text for Muslims and is the word of Allah Know Muslims call Muhammad the Messenger of Allah Know the importance of events in life for Muhammad for Muslims today	Explore how Hindus believe God is worshipped in diverse forms. Understand Ganesha is that aspect of God that help Hindus overcome obstacles. Know that Hindus believe Krishna is an Avatar of God Learn about the festival of Raksha Bandhan.	Learn about how Christian beliefs about God are reflected in scriptures, prayers, songs, actions & artefacts used in worship. Understand that Christian community life involves worship, social & educational events. Discuss how Church creates a Christian Community and a place of worship.	Big question unit where children are able to debate their opinions and draw links between each of the different religions.	Understand that Guru Nanak is the 1st of 10 Gurus and is a source of spiritual authority for Sikhs. Learn about Guru Nanaks teachings and how the stories told about his life are examples for Sikhs.



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MFL	Presenting myself	Family	Goldilocks	Habitats	Classroom	My home
	Count to 20 in Spanish. Say their name and age in Spanish. Say hello and goodbye and then ask how somebody is feeling and answer in return how they are feeling. Tell you where they live in Spanish. Tell you if they are Spanish or English, introducing concept of gender and agreement.	Say the nouns in Spanish for members of their family. Tell somebody in Spanish the members and age of a fictitious, historical or television family as a model to present and practise family vocabulary. Continue to count, reaching 100, to enable students to say the age of various family members. Understand the concept of mi and mis in Spanish.	Not only sit and listen attentively to the story but to recognise, understand and remember more of the new language. Increase their memory potential in Spanish by using picture cards, word cards and phrase cards in Spanish. Increase their thinking and reasoning skills in Spanish, identifying strategies to use in the future for memorising new words and phrases. Attempt to spell in Spanish.	Tell somebody in Spanish the key elements animals and plants need to survive in their habitat. Tell somebody in Spanish examples of the most common habitats for plants and animals and give a named example of these habitats. Tell somebody in Spanish which animals live in these different habitats. Tell somebody in Spanish which plants live in these different habitats.	Recognise and repeat from memory simple classroom objects and use the correct gender. Say what they have and do not have in their pencil case. Recognise and respond to simple classroom commands and praise.	Say whether they live in a house or an apartment and say where it is. Repeat, recognise and attempt to spell up to ten nouns (including the correct article for each) for the rooms of the house in Spanish. Tell somebody in Spanish what rooms they have or do not have in their home. Ask somebody else in Spanish what rooms they have or do not have in their home. Attempt to create a longer spoken or written passage in Spanish recycling previously learnt language (incorporating personal details such as their name and age).
PSHE / Citizenship • knowledge • Skills	Identity, society and equality: Democracy Understand that Britian is a	Drug, alcohol and tobacco education: Making choices	Physical health and wellbeing: What is important to me?	Keeping safe and managing risk: Playing safe	Relationships and health education: Growing up and changing	Relationships and health education: Growing up and changing
P4C Theme	democratic society and what this means	Develop an awareness of drugs that are common in everyday life such as	Recognise food choices linked to religious, moral, cultural or health reasons	Recognise and understand the importance of the classification of computer	Identify changes throughout the Human life cycle	Recognise the important points in the Human lifecycle.
Events	Know that there are different political parties who differ in their views	caffeine, alcohol, tobacco or nicotine products and when they may be used.	Explain why a person may avoid certain foods.	games Recognise the importance of safety near road, rails,	Understand change is ongoing Understand change is	Understand the changes which occur during puberty Understand the importance of
	Understand that people have opportunities to influence decisions by voting in elections P4C Theme - Marriage	Identify why a person may choose or use or not use a drug. Explain some of the alternatives to using drugs.	Identify factors that might influence people's choices about food e.g. ethical farming, fair trade and seasonality Consumer choice	building sites Understand the basic principles of first aid and emergency care	individual P4C Theme – Community	personal hygiene and how to keep clean. Recognise the different emotions which we feel during puberty.



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Event	ts – Multicultural week	DAC Thomas Cav No to		P4C Theme – Loss and	P4C Theme – Human Rights
			Understand the importance of sleep on physical and mental	Bereavement	Events –Sports Day/Values
			health	Events – Sports Relief /Comic	Parliament
		Events – Anti bullying week	ricular	Relief	Taniament
		Trenes 7 and Banying Week		rene.	
			P4C Theme – Staying Safe		
			Online		
			Events – Internet safety		
			Week		