# Icknield Walk First School Year 4 Long Term Planning - Autumn Term

	year 4 Long Term Planning - Autumn Term		
	South America a	nd the Rainforest	
English	<ul> <li>Persuasive writing - based arou</li> <li>Discussion - Different sides of</li> <li>Story Settings - Contrasting serainforest and deforested area</li> <li>SPAG:         <ul> <li>Use of paragraphs to organise</li> </ul> </li> </ul>	an argument ettings based around tribal home, a. ideas around a theme hat day, the bulldozer was still there t debating	
Maths	Herts for Learning - Essential Maths See end of document for overview of		
Science	Living things and their habitats: Pupils will be taught to: recognise that living things can be grouped in a variety of ways, explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment, recognise that environments can change and that this can sometimes pose dangers to living things.	observe that some materials change state when they are heated or cooled, and measure or research the	
Computing	The internet During this unit learners will apply their knowledge and understanding of networks, to appreciate the internet as a network of networks which need to be kept secure. They will learn that the World Wide Web is part of the internet, and be given opportunities to explore the World Wide Web for themselves to learn about who owns content and what they can access, add, and create.	Audio editing In this unit, learners will initially examine devices capable of recording digital audio, which will include identifying the input device (microphone) and output devices (speaker or headphones) if available. Learners will discuss the ownership of digital audio and the copyright implications of duplicating the work of others. In order to record audio themselves, learners will use	

	Finally they will evaluate online content to decide how honest, accurate, or reliable it is, and understand the consequences of false information.	which will include editing their work, adding multiple tracks, and opening
History	n/a this term	
Geography	Physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle.  Understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom, a region in a European country, and a region within North or South America.  • Use of atlases and the internet to explore locations and physical features.  • Detailed look of what a rainforest is  • Human impact on the rainforest  • A comparison between tribal life and our own  Linked to our Science work, whilst studying animals in the school environment, we shall map our findings according to location using a school map. (added 2021)	
Art and design  Design and technology	<ul> <li>Sketch books:         <ul> <li>Full body self-portraits, plants from the local environment (close observation, line quality, shading)</li> </ul> </li> <li>Art and design techniques:         <ul> <li>Rainforest picture (Scale and proportion, observing colours, selecting suitable equipment for a task, comparing different fabrics)</li> <li>Christmas decorations (observe and design textural art)</li> <li>Calendar (Using a variety of stitches)</li> <li>Understand and use tint in 'Willow pattern' Christmas scenes (2022)</li> </ul> </li> <li>Great artists, architects and designers:         <ul> <li>Henri Rousseau</li> </ul> </li> <li>Textiles - 2D shape to 3D product:         <ul> <li>Design, make, evaluate - 3D textile Christmas decorations</li> </ul> </li> </ul>	
חב	Cuimming activities and mater	Cuimming activities and water
PE	Swimming activities and water safety Falcon	Swimming activities and water safety Eagle
	Invasion games Quick sticks - hockey-Eagle Invasion Games	(Tennis- Sports partnership - professional coach) F Golf - professional coach E and F
	High fives (netball)	Invasion games -Tag rugby

RE	Hinduism:	Advent and Christmas around the
	<ul> <li>Looking at Hindu beliefs and practises</li> <li>Find out what Hindus teach their pupils about God and worship</li> <li>Find out about the Hindu Trimurti, shrines, puja and Mandirs</li> <li>Harmlessness and equality</li> </ul>	world:  - Advent in the Christian church - Advent wreaths - Compare advent in Mexico - Pinata
PSHE	Positive friendships, including online Feelings and Emotions Healthy relationships Responding to hurtful behaviour Managing confidentiality Recognising risks online Respecting differences and similaritie Discussing difference sensitively	25
Music	Play it again - exploring rhythmic patterns	Christmas production preparation
French	Revision of coverage from Year 3 w increased reading.  - Greetings and goodbyes  - Asking people how they are  - What's your name?  - The alphabet  - My family  - Numbers 0-12  - Happy Christmas	ith the addition of written work and
Trips	n/a	
Role Play	Looking at dilemmas related to deforestation  Taking on the role of tribal people living in the rainforest  Persuasive writing - writing and presenting adverts	
Events	Year 4 parents invited to harvest assembly Youth Speaks	Christmas production

# Icknield Walk First School Year 4 Long Term Planning - Spring Term

TOPIC	VIKING RAIDERS		
English	Writing Focus:		
	- Poetry - Viking sagas		
		ng seaborne adventure from point of	
	view of one of the Vikings		
	- Reports - Write a report abou	t Viking life	
	SPAG:		
		ossession - the girl's name; the girls'	
	names	ather nunctuation to indicate direct	
		other punctuation to indicate <b>direct</b> ma after the reporting clause; end	
	1	mmas - Thor shouted, "Give me back	
	my hammer!"]	minus The Shouted, Ove he back	
	Spoken language:		
	1 .	Digestion work; Viking research and	
	newspaper reporting		
	- Oral rehearsal/presenting - Vil	king sagas / poetry	
Maths	See end of document for overview of	mathematics in Year 4	
Science	Animals, including humans		
	Pupils will be taught to:	hania manta af tha dia atina matam in	
	describe the simple functions of the basic parts of the digestive system in		
	humans, identify the different types of teeth in humans and their simple functions,		
	construct and interpret a variety of food chains, identifying producers,		
	predators and prey,		
	know that animals have different diet	rs.	
Computing	Photo editing	Data logging	
	In this unit, learners will develop	In this unit, pupils will consider how	
	their understanding of how digital	and why data is collected over time.	
	images can be changed and edited,	Pupils will consider the senses that	
	and how they can then be resaved	humans use to experience the	
	and reused. They will consider the	environment and how computers can	
	impact that editing images can have,	use special input devices called	
	and evaluate the effectiveness of	sensors to monitor the environment.	
	their choices.	Pupils will collect data as well as	
		access data captured over long	
		periods of time. They will look at data points, data sets, and logging	
		intervals. Pupils will spend time using	
		a computer to review and analyse	
		data. Towards the end of the unit,	
		data. Tomai as the cha of the diff,	

History	The Viking and Anglo-Saxon strug	pupils will pose questions and then use data loggers to automatically collect the data needed to answer those questions  gle for the Kingdom of England to
Geography	the time of Edward the Confessor  Viking raids and invasion  Resistance by Alfred the Gre  Further Viking invasions and a  Where the Vikings came from  How the Vikings came to Engl  How the Vikings lived  Viking myths and legends	eat and Athelstan, first king of England danegeld nand and why ed maps to look at where the Vikings
Art and design  Design and	Sketch books  - Differences in animal teeth  Art and design techniques  - Longboat at sea - colour mixing, creating mood and feeling, the effect of light  Sculpture  - Hnefatafl (Viking game) sculpt pieces for own set  Great artists, architects and designers  - Viking longboat design - strength and artistic features	
technology	<u>Cooking and nutrition</u> – tasting and discussing food from a different culture; prepare and cook Viking oatcakes and serve with fresh seasonal fruit <u>Design, make, evaluate</u> – Viking shields made using junior hacksaws	
PE	Swimming activities and water safety Falcon  Golf - professional coach- F and	Swimming activities and water safety Eagle  Invasion games
	E (Tennis- Sports partnership - professional coach) E	Quick sticks - hockey-Falcon
	Gymnastics -  Create a sequence using floor and mats that has up to six elements, e.g. four twisted shapes and two ways of turning	<ul> <li>Folk Dance</li> <li>Create and perform a dance based on steps and figures found in traditional English (VIKING) country dances;</li> <li>Create and perform a dance which incorporates solo, partner and</li> </ul>

	while travelling.  Teach your sequence to a partner, and then perform it so that both of you start, perform and finish at the same time.	group work, using stepping from the Suffolk broom dance as a starting point.
RE	Sikhism and belonging to a religion	ղ:
	- Considering our own communit	
	- Find out about the Khalsa, Kh	
		the importance of 'Akhand Path'
	- Sharing food as part of worsh	•
	- How Sikh communities welcom	,
	- The importance of Guru Nana	
	The importance of our distance	in and me our a or anni ourns
PSHE	What makes a community? Shared responsibilities How data is shared and used Making decisions about money Using and keeping money safe	
Music	Singing - Preparation for Youth	Painting with sound - exploring sound
	Makes Music Concert	colours
French	Revision of coverage from Year 3 increased reading.  - How old are you?  - Brothers and sisters  - Do you have a pet?  - Colours  - The months of the year  - Numbers 13-31	with the addition of written work and
Trips	Grafham Water residential	
Role Play	Acting out Viking sagas Day to day life of Vikings	
Events	Grafham Water residential Viking Day	

# Icknield Walk First School Year 4 Long Term Planning - SummerTerm

TONE	Ansient Conses & Transition		
TOPIC	Ancient Greece & Transition		
Literacy	Writing Focus: - Explanations - based around science topics		
	<u>Writing Focus</u> : - Traditional tales - Myths <u>Writing Focus</u> : - Writing and performing a play - a Greek play base around heroes		
	<u>SPAG</u> - Noun phrases expanded by the addition of modifying adjectives,		
	nouns and preposition phrases (e.g. the skeleton expanded to the fearsome skeleton with sharp teeth)		
	<u>SPAG</u> - Appropriate choice of <b>pronoun</b> or <b>noun</b> within and across <b>sentence</b> :		
	to aid <b>cohesion</b> and avoid repetition (e.g. <b>Jason</b> stepped off the ship and		
	he marched purposefully up the beach.)		
	Spoken language:		
	Questioning - science units based are	ound sound and electricity;	
	'What if' work - based around the Ancient Greeks (democracy, Olympics,		
	etc)		
	Talking with others - democracy debo	ating	
Numeracy	See end of document for overview of	_	
Science	Sound	Electricity.	
Science	Pupils will be taught to:	Electricity Pupils will be taught to:	
	, ,	identify common appliances that run	
	associating some of them with	1	
	something vibrating	·	
		construct a simple series electrical	
		circuit, identifying and naming its	
	_	basic parts, including cells, wires,	
	the ear	bulbs, switches and buzzers	
	find patterns between the pitch of	1	
	a sound and features of the object	light in a simple series circuit, based	
	that produced it	on whether or not the lamp is part	
	find patterns between the volume	of a complete loop with a battery	
	of a sound and the strength of the	recognise that a switch opens and	
	vibrations that produced it	closes a circuit and associate this	
	recognise that sounds get fainter	with whether or not a lamp lights in	
	as the distance from the sound	a simple series circuit	
	source increases.	recognise some common conductors	
		and insulators, and associate metals	
		with being good conductors.	

Computing	Programming A - Repetition in shapes This unit is the first of the two programming units in Year 4, and looks at repetition and loops within programming. Pupils will create programs by planning, modifying, and testing commands to create shapes and patterns. They will use Logo, a text-based programming language.	This unit explores the concept of repetition in programming using the Scratch environment. It begins with a Scratch activity similar to that carried out in Logo in Programming unit A, where learners can discover similarities between two environments. Learners look at the
History	Ancient Greece Ancient Greece - a study of Greek life and achievements and their	
	influence on the western world	
	The fundamentals of democracy	
	Greek culture	
	Greek myths and legends	
Geography	Opportunities linked to Ancient Gree Orienteering using the school site,	ce (mapwork, trade discussion, etc) including compass work.(added 2021)
Art	when shaping	(sketch in charcoal, shape, paint) he suitability of thickness of the clay 'play dough' for repeated patterns on
D&T	<u>Electrical systems – simple circuits</u> 'Dragon's Den' – understand and use e	_
	[e.g. series circuits incorporating swi	tches/bulbs/buzzers/motors]
	Children to design and develop their	own electrical object.
	Look at the work of Alexander Graha	ım Bell - his development of the
	telephone (linked to Science - Sound)	
	Savoury Food - preparing a variety of	f Greek meze (humus, tzatziki, etc)
	involving cutting, peeling and mixing	

PE	Swimming activities and water safety Falcon	Swimming activities and water safety Eagle
	Creative dance -E / Create and perform dances based on oppositional forces.	Creative dance -F/ Create and perform dances based on oppositional forces.
	<ul> <li>Gymnastics-</li> <li>Using floor and apparatus, work with a partner to create and perform a sequence that involves both of you moving together from a starting point, and then moving apart to finish.</li> <li>The sequence should include at least four elements, and each of you should follow an L-shaped</li> </ul>	Athletics Running, throwing and jumping Outdoor games Striking / Fielding Bat and ball skills and games
	pathway.	
RE	Special books and Sacred texts:	
	- What makes a 'special' book 'so	
	<ul> <li>Look at Hindu Vedas, Bhagavao</li> <li>lives of Hindus</li> </ul>	d Gita and how they guide the daily
	- Look at the Sikh special book Sikhs treat this book?	- The Guru Granth Sahib. How do
	- Find out about the Bible (Old o	and New Testaments)
	- How do Christians believe the	world began?
PSHE	Maintaining a balanced lifestyle Oral hygiene and dental care Personal hygiene routines Medicines and household products Drugs common to everyday life Road safety and keeping safe	
Music	Exploring singing games Salt, pepper, vinegar, mustard	Leavers Production preparation
French	Revision of coverage from Year 3 v increased reading: - When's your birthday? - Days of the week	vith the addition of written work and

	<ul> <li>What's today's date?</li> <li>Weather</li> <li>Should these prior goals be met, further extension work will be based around schools, food and locations in France.</li> </ul>
Trips	Visit to Fitzwilliam Museum and The Museum of Classical Archaeology in Cambridge
Role Play	Acting out scenes from Greek Life Creating short plays based on Greek Mythology
Events	Knex Challenge Year 4 leavers' event

## Spelling, punctuation and grammar (SPAG)

Where this will be incorporated as part of a literacy unit it is indicated in the termly plans above.

In addition, this year we will cover in specific grammar lessons the following:

- The grammatical difference between plural and possessive -s
- Standard English forms for verb inflections instead of local spoken forms [for example, we were instead of we was, or I did instead of I done]
- Use of commas after fronted adverbials
- Terminology the children will learn: determiner, pronoun, possessive pronoun, adverbial

#### Spoken Language Progression:

In addition to highlighted areas in the termly plans, **vocabulary** is constantly taught across all areas, especially through specific focussed sessions such as guided reading (including 'magpying'), SPAG sessions and topic specific work.

## Working mathematically

By the end of year 4, children will apply their understanding of maths to solve a wide variety of problems with more than one step and be expected to prove their thinking through pictures, jottings and conversations. They will continue to make connections between different areas of maths and ask their own questions, working in an organised way to find solutions which help them identify common patterns or any errors more easily.

#### Number

#### Counting and understanding numbers

Children will be very familiar with numbers that have up to 4 digits and will be able to order and compare by showing them in different ways such as on a tape measure or using hands-on resources. Using their understanding of place value (how the value of each digit changes depending on its position in the number), children will be able to partition (break and make) numbers in different ways e.g. 2345 = 2000 and 300 and 40 and 5 but could also represent this as 1000 and 1000 and 200 and 100 and 40 and 5 or 2000 and 200 and 145. They will work with numbers securely up to 10,000 and may begin to count beyond in 1s, 10s, 100s and 1000s. They will use this to help them find 10, 100 or 1000 more or less than any given number. They will multiply and divide whole numbers by 10 and 100 and understand that this changes the value of each digit rather than 'just adding a 0'. They will develop their understanding to decimal hundredths, comparing and ordering these using contexts such as money. Children will also learn about the pattern to find any Roman numeral to 100.

Children will develop their expertise when counting forwards and backwards from 0 to include multiples of 6, 7, 9 and 25; decimals with up to 2 places and fractions. They will be able to fluently count in tenths, hundredths and simple fractions. They will develop their understanding of negative numbers through counting backwards through 0. Children will be able to recognise and describe number patterns and relationships including multiples (e.g. 3, 6, 9, 12 are multiples of 3) and factor pairs (e.g. 1 and 12, 2 and 6, 3 and 4 are all factor pairs for 12) for known times tables.

## Calculating

Children will develop various strategies for solving +, -, x,  $\div$  calculations mentally, using jottings when appropriate and for checking that their answers are sensible. Children will be encouraged to share their methods with others to help them see which work best, are quickest and most accurate. Over the course of the year, children will become fluent in all multiplication and division facts up to 12 x 12 and apply these facts to other problems e.g. 232 x 7 =  $(200 \times 7) + (30 \times 7) + (2 \times 7)$ . Children will use the = sign to demonstrate equal value e.g.  $3 \times 8 = 48 \div 2$  and solve missing number problems e.g.  $3 \times ? = 48 \div 2$ . They will explore patterns and rules for the times tables they learn and use pictures and objects to support their understanding.

Children will be required to solve problems accurately using the column addition and subtraction methods for numbers with up to 4-digits and explain how the methods work. They will use apparatus to secure their understanding of these. This will include addition and subtraction calculations with different numbers of digits (such as 1286 + 357); and numbers containing Os (such as 8009 - 3231). They will use formal written methods of short multiplication and short division for two and three digit numbers by a single digit. Children who become very adept at these types of calculations will be stretched through problems such as those containing missing numbers so that they know when, if and why they need to use the methods.

## Fractions including decimals

Children will develop their understanding of fractions by comparing to, or finding a part of, the whole. Through hands-on resources, pictures or jottings, such as a number line, children will add and subtract two fractions with the same denominator (e.g. 2/3 + 2/3). Children will

solve problems involving fractions such as 'find  $\frac{3}{4}$  of 20 litres' using their knowledge of multiplication and division and through practical equipment. Children secure their understanding that fractions and decimals are different ways of expressing numbers and proportions.

#### Measurement

Children secure their understanding of place value and decimals to record measurements accurately. They use their understanding of multiplying and dividing by 10, 100 and 1000 to convert between different units of measure of length (km, m, cm, mm), weight (kg, g) and money (£ and p). Children will link their understanding of area to multiplication and describe how to find the perimeter of a rectangle quickly. Children will read and write the time accurately using analogue and digital clocks, including clocks with Roman numerals. They will convert between units of time (hours, minutes and seconds). Children estimate, compare, calculate and solve a variety of problems involving all units of measurement.

## Geometry

Children will extend their knowledge of shape to include more unusual quadrilaterals (four-sided shapes) and triangles. They will use increasingly more specific vocabulary such as parallelogram, rhombus and trapezium; scalene and isosceles. They refine their understanding of symmetry and solve problems where the shape is not displayed in its usual way (e.g. it might be on its side). Children find and name different angles and use this information to decide if a shape is regular or irregular. Children describe position and movement on a grid as coordinates and will plot points to draw 2-D shapes.

#### **Statistics**

Children will complete, read and interpret information on bar charts; they will solve problems that involve finding information in charts, tables and graphs; including time graphs.