Year 4

Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Vehicle for Learning	ning Rivers Ancient Egyptians		Magnificent Mountains		Anglo Saxons	
Maths	Unit 1 : Place Value - 4 digit numbers (1) Unit 2 : Place Value - 4 digit numbers (2) Addition and subtraction	Measurement-Perimeter Multiplication & division End of term- Autumn NTS test	Multiplication and Division (1) Measurement-Area Fractions including capacity	Statistics Fractions including decimals- decimals End of term-Spring NTS test	Fractions including decimals- decimals Measurement- Money/ Time	Geometry- Position & direction Consolidation period End of term- Summer NTS test
English	The Flood	ТВС	ТВС	ТВС	ТВС	ТВС

Science

States of Matter

I can compare different materials and group them together as solids, liquids and gases.

I can investigate how some materials can change state when they are heated or cooled.

I can measure and research the temperatures at which changes of state occur.

I can understand how the key terms evaporation and condensation in terms of the water cycle.

Working Scientifically

Questioning

I can begin to ask relevant questions relating to my Science learning, using different types of scientific enquiry.

I can use simple scientific evidence to answer questions. I can use simple scientific evidence to support my findings to investigations.

Observing

I can begin to make systematic observations.

I can begin to make increasingly accurate measurements to support my observations.

I can begin to identify differences and similarities, or changes relating to simple scientific ideas and processes.

Investigating

I can set up simple practical investigations, with support.
I can use written and oral explanations to explain my findings.
I can use the correct scientific vocabulary in my investigations.
I can use my results to draw simple conclusions, relating it to my predictions.

I can suggest improvements to my investigation and raise further questions.

Recording

I can gather, record, classify and present data in different ways, to help answer my question, with support.

I can begin to explain my findings using simple scientific language. I can use simple drawings, labelled diagrams and tables to record and explain my findings.

Sound

I can investigate how sounds are made.

I can describe how sounds are made, associating some with vibrating.

I can understand and explain that vibrations from sound travel through a medium to the ear. I can investigate the pitch of a sound and the properties of the material that produced it, explaining my findings. I can investigate the volume of a sound and the strength of the vibrations that produced it, explaining my findings. I can explain the relationship between the volume of a sound and the distance away from the source of the sound.

Questioning

I can begin to ask relevant questions relating to my Science learning, using different types of scientific enquiry.

I can use simple scientific evidence to answer questions. I can use simple scientific evidence to support my findings to investigations.

Observing

I can begin to make systematic observations.
I can begin to make increasingly accurate measurements to support my observations.
I can begin to identify differences and similarities, or changes relating to simple scientific ideas and processes.

Investigating

my predictions.

I can set up simple practical investigations, with support. I can use written and oral explanations to explain my findings. I can use the correct scientific vocabulary in my investigations. I can use my results to draw

simple conclusions, relating it to

Living things and their habitats I can describe how living

things can be grouped in different ways.
I can explore classification keys and understand why they are useful.
I can use classification keys to group, identify and name a variety of living things.

environments can change. (Previous learning: see N, R & Y2 coverage) Questioning

I can describe how

I can begin to ask relevant questions relating to my Science learning, using different types of scientific enquiry.

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Observing

I can begin to make systematic observations. I can begin to make increasingly accurate measurements to support my observations. I can begin to identify differences and similarities, or changes relating to simple scientific ideas and processes.

Investigating

I can set up simple practical investigations, with support. I can use written and oral explanations to explain my findings. I can use the correct scientific vocabulary in my investigations. I can use my results to draw simple conclusions, relating it to my predictions. I can suggest improvements to my investigation and raise further questions.

Electricity

on electricity.
I can understand a simple series circuit and its components.
I can construct a simple series circuit and label the different components.
I can explain and give reasons why a component in a circuit will work or won't work.
I can investigate how a switch works and explain my findings.
I can investigate common conductors and insulators and explain my findings.

I can identify a range of

common appliances that run

Questioning

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Observing

I can begin to make systematic observations.
I can begin to make increasingly accurate measurements to support my observations.
I can begin to identify differences and similarities, or changes relating to simple scientific ideas and processes.

Investigating

I can set up simple practical investigations, with support. I can use written and oral explanations to explain my findings. I can use the correct scientific vocabulary in my investigations. I can use my results to draw simple conclusions, relating it to my predictions.

Animals Including Humans

I can investigate how the human digestive system works.
I can describe the functions of different parts of the human digestive system.
I can name and identify the different types of teeth in humans.

I can describe the functions of the different types of teeth in humans.

I can understand what a producer, predator and prey is in terms of food chains. I can interpret different food chains.

I can construct different food chains with a variety of different producers, predators and prey. (Previous learning: see N, R, Y1, Y2 & Y3 coverage)

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I can begin to ask relevant questions relating to my Science learning, using different types of scientific enquiry.

I can use simple scientific evidence to answer questions. I can use simple scientific evidence to support my findings to investigations.

Observing

I can begin to make systematic observations.
I can begin to make increasingly accurate measurements to support my observations.
I can begin to identify differences and similarities, or changes relating to simple scientific ideas and processes.

Investigating

I can set up simple practical investigations, with support. I can use written and oral explanations to explain my findings. I can use the correct scientific vocabulary in my investigations. I can use my results to draw

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Geography	Map skills & field work	Settlements	Developing knowledge of the world	Field work	
	I can locate some UK rivers on a	I can explain some reasons why			
	world map.	people are attracted to living by	I can locate some mountain	I can create a simple scale	
	·	rivers.	ranges on a world map.	drawing.	
	I can locate some rivers outside				
	of the UK on a world map.	I can explain some reasons why	I can identify some high and low	I can use the N, NE, NW, S, SE,	
	·	water is such a valuable	areas on an OS map, using	SW, E and W compass points	
	I can identify climate zones on	commodity.	contour lines.	to locate features and plan a	
	a map.			route on an OS map.	
	·	I can discuss both the positive	I can name some mountain	Toute on all 05 map.	
	I can locate some deserts on a	and the negative effects that	ranges, including the Alps,	I can recognise some symbols	
	world map, including a hot and	flooding has on human life.	Himalayas and the Andes,	on an OS map of a familiar	
	a cold desert.		recognising what continent and	area.	
			hemisphere they are located in.		
	Location and place knowledge		, ,	I can identify the key features	
			I can begin to explain how a	of a locality by drawing a map,	
	I can name some UK rivers,	Trade	mountain is formed.	using basic OS symbols.	
	including the Tame, Severn and				
	Trent.	I can recognise trade links,	Climate zones	(Previous learning: see N,	
		including food miles and discuss		R, Y1 & Y2 coverage)	
	I can discuss the previous uses	the importance of these.	I can discuss the physical features		
	of the River Trent.	(Link to Food and Nutrition)	of a climate zone.		
	Developing knowledge of the	(Previous learning: see N,	I can compare and contrast a		
	world	R, Y1 & Y2 coverage)	region in the UK and a		
			contrasting region in or outside		
	I can name some rivers outside		of the Europe (flat/under sea		
	of the UK, recognising what		level).		
	country, continent and		,		
	hemisphere it is located in.		I can understand hazards from		
			physical environments, such as		
	I can name some deserts,		avalanches and mud slides in		
	recognising deserts can be hot		mountain regions.		
	or cold, such as the Sahara and		_		
	Antarctica.		(Previous learning: see N, R,		
			Y1 & Y2 coverage)		
	Rivers - Human and Physical				
	geography				
	Lean avalain the inveney of -				
	I can explain the journey of a				
	river from source to mouth				
	using diagrams, pictures or				
	models.				
	I can begin to explain how a				
	river is formed.				
	Tivel is formed.				
	I can discuss how the water				
	cycle is closely links to the				
	formation of a river.				
	Totalidadi of a fiver.				
	Climate Zones				
	I can recognise and describe the				
	physical features of rivers and				
	describe how they have shaped				
	the land.				
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History		Anglo Saxons
ilotor y	Ancient Egypt	I can explore Anglo Saxon
	I can understand the importance of Tutenkhamun in our	Staffordshire
	understanding of Ancient Civilizations	I can identify why Alfred the
		Great was Great
	I can place events from period studied on a timeline	oreat was oreat
	I can use terms related to the periods studied and begin to date	I can use evidence to
	events	reconstruct life in the past
	Crossic Control of the Control of th	I are identify law feet was and
	I can understand more complex terms eg BC/AD	I can identify key features and events of the past
		events of the past
	I can look at evidence available	I can look for links and effects
	I can begin to evaluate the usefulness of different sources	in the past
	Team begin to evaluate the disciuliess of different sources	
	I can use text books and historical knowledge	I can offer a reasonable
		explanation for some events
	I can use evidence to build up a picture of a past event	I can look at evidence available
	I can choose relevant material to present a picture of one aspect of life in the past	I can begin to evaluate the
	ille ill tile past	usefulness of different sources
	I can ask a variety of questions	I can use text books and
		historical knowledge
	I can use the library and internet for research	I motorical mioricage
	(Previous learning: see N, R, Y1, Y2 & Y3 coverage)	I can use evidence to build up a
		picture of a past event
		I can choose relevant material to present a picture of one
		aspect of life in the past
		aspect of the first post
		I can ask a variety of questions
		I can use the library and
		internet for research (Previous learning: see N,
		R, Y1, Y2 & Y3 coverage)
		1, 1, 1, 12 3.13 33.13

Computing	Online Safety	Systems and networks	Computer Science and Programming	Photo Editing	<u>Data</u>
1 3	I can identify how digital	I can describe how networks	I can identify that accuracy in programming is important	I can explain that digital images	I can explain that data gathered
	citizens take responsibility for	physically connect to other		can be changed and describe	over time can be used to answer
	themselves, their communities,	networks and make up the	I can create a program in a text-based language	why	questions
	and their world.	internet			
			I can explain what 'repeat' means	I can change the composition	I can use a digital device to
	I can create a strong password	I can outline how websites can		of an image and evaluate	collect data automatically and
	to help protect my privacy.	be shared via the World Wide	I can design and create a project that includes repetition	improvements	use this to answer questions
		Web, how content can be			
	I can identify how what we post	added and accessed.	I can modify a count-controlled loop to produce a given outcome	I can make good choices when	I can explain that a data logger
	online affects our identity.			selecting different tools	collects 'data points' from
		I can recognise how the content	I can decompose a program into parts		sensors over time
	I can identify what makes a	of the WWW is created by		I can recognise that not all	(Previous learning: see R,
	strong online community.	people evaluating the	I can create a program that uses includes two or more loops to	images are real	Y1, Y2 & Y3 coverage)
		consequences of unreliable	produce a given outcome		
	I can identify what I should do	content		Audio Editing	
	when someone uses mean or	(Previous learning: see R,	I can develop the use of loops in a different programming	I can identify that sound can be	
	hurtful language on the	Y1, Y2 & Y3 coverage)	environment	digitally recorded, explaining	
	internet.			how it is stored as a file	
			I can explain that in programming there are infinite loops and		
	I can identify why people alter		count controlled loops	I can use a digital device to	
	digital photos and videos.			record sound	
	(Previous learning: see R,		I can modify an infinite loop in a given program		
	Y1, Y2 & Y3 coverage)			I can explain that audio can be	
			(Previous learning: see R, Y1, Y2 & Y3 coverage)	changed through editing	
				I can combine different audio	
				to be played together and	
				evaluate	
				(Previous learning: see R,	
				Y1, Y2 & Y3 coverage)	

Art	Painting I can accurately apply appropriate amounts of paint to the surface of my chosen media.
	I can choose and use paint for a purpose
	I can experiment with colour, texture, line, shape and composition to create mood.
	I am learning to work with monochrome colour
	I am learning how I can paint with expression by combining traditional painting methods with unorthodox and unusual tools and techniques such as – rags, sticks, fabrics and sponges.
	I can mix secondary and tertiary colours to paint with and use colours, textures, lines and shapes
	I know how where secondary colours sit on the colour wheel.
	I understand composition in relation to a horizon line or landscape.
	I can paint with line to define detail colour has light and dark values and how colours can be used to make colours lighter or darker, creating more vibrant paintings like those of the impressionists.
	I am learning how to make shades and tones to add more dramatic effects and to manipulate light.
	I can use line to highlight form and shape.
	I am developing my brushstrokes work to allow for a

Sculpture and 3D

more realistic outcome. I can use pattern and texture to add effects or decoration.

I can design and make forms in

I can join clay and create a simple base for adding other shapes.

I can use a variety of techniques and tools to create a variety of shapes.

(Previous learning: see R, **Y1, Y2 & Y3 coverage)**

Famous Artists - Paul Cezanne

I can discuss the styles of artists, craft makers or designers and use this to inform my own work.

I can understand the historical and/or cultural significance of a chosen artist/art form.

(Previous learning: see R, **Y1, Y2 & Y3 coverage)**

Drawing

I can accurately identify and represent 2D and 3D geometric shapes when drawing from observation or second-hand sources, becoming aware of proportion, scale and order.

I can focus on the use of line for mark making and to add texture to drawings

I show control and shading with graphite, chalks and charcoal to describe shape, form, light and shade.

I can draw quick light lines (sketching) and more deliberate, measured lines.

I can revisit close observational drawing with a focus on adding texture.

I am developing my understanding of perspective.

I can use a view finder

Sketchbooks

I can use my sketch book to adapt my work as my ideas develop.

I can make annotations in my book to describe how I might develop my work further.

Evaluate and appraise

I can use appropriate language when comparing ideas, methods and approaches in my own and others' work.

I can describe what I think and feel about my own and others' work and how this might influence my designs

(Previous learning: see R, Y1, Y2 & Y3 coverage)

DT

Seasonal stockings

Design

I can use a diagram to design a product and label and annotate my design

I can use ICT/books to research my product and its functionality

I can use research to develop design criteria

I can follow the design criteria of a product and come up with my own design

I can discuss my design ideas as part of a group

I can consider the purpose and functionality of a product before I design it

I can write about what my product is used for and explain why it is useful, giving examples

I can create my detailed design using labels, model mock ups and ICT (where appropriate)

Make

I can select the correct equipment from a range of tools and materials to create my product

I can cut, shape, join and finish my product using the correct equipment

I can measure and cut materials accurately using a ruler to mark out

I can cut use a saw and woodblock

Evaluate

I can complete research into what my [product] is and its functionality and evaluate the existing product to formulate my own design

I can evaluate the purpose and functionality of my [product] and if it works, linked to my design criteria

I can evaluate my product thinking about WWW and EBI

(Previous learning: see R, Y1, Y2 & Y3 coverage)

Seasonal food

Technical knowledge

I can understand and apply the principles of a healthy diet

I can understand the structure of a recipe and be able to follow it

I can understand the seasonality of, and know where and how a variety of ingredients are grown, reared, caught and processed

Food and Nutrition

I can revise how to use a ruler and read a scale to cm accurately to support my measurements

I can measure volumes of liquids accurately

I can use the correct knife grip for cutting and spreading accurately

I can hold food steady with a fork while chopping/slicing

I can prepare a cook savoury dishes using a range of cooking techniques such as; chopping, peeling, grating, slicing, mixing, spreading

I can begin to experiment with different combinations of ingredients to create a desirable taste

(Previous learning: see R, Y1, Y2 & Y3 coverage)

Light up signs

Design

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I can evaluate my product thinking about WWW and EBI

(Previous learning: see R, Y1, Y2 & Y3 coverage)

		Swimming
PE		I can swim competently, confidently and proficiently over a distance of at least 25 metres.
		I can use a range of strokes effectively e.g. front crawl, backstroke and breaststroke.
		I can perform safe self-rescue in different water-based situations.

	<u>Dance</u>	Games	Games	OAA	<u>Athletics</u>	<u>Gymnastics</u>
	I can confidently improvise with a partner or on my own.	I can begin to vary skills, actions and ideas and link these in ways	I can begin to vary skills, actions and ideas and link these in ways	I can develop strong listening skills.	I can begin to build a variety of running techniques and use	I can begin to link skills with control, technique, co-
	a partner or on my own. I can begin to create longer dance sequences in a larger group. I can demonstrate precision and some control in response to stimuli. I can begin to vary dynamics and develop actions and motifs. I can demonstrate rhythm and spatial awareness. I can modify parts of a sequence as a result of self-evaluation. I can use simple dance vocabulary to compare and improve work. I can think about how I can improve my own work. I can work with a partner or small group to improve my skills. Appraise and evaluate I can think about how I can improve my work I can work with a partner or small group to improve my skills (Previous learning: see N, R, Y1, Y2 & Y3 coverage)	, ,	, ,	skills. I can use simple maps. I can begin to think activities through and problem solve. I can choose and apply strategies to solve problems with support. I can think about how I can improve my own work. I can work with a partner or small group to improve my skills. (Previous learning: see Y3 coverage)	,	l ~
		(Previous learning: see N, R, Y1, Y2 & Y3 coverage)				
Music See Charanga scheme for objectives and previous coverage	Interesting time signatures	Combining elements to make music	Developing pulse and groove through improvisation	Creating simple melodies together	Connecting notes and feelings	Purpose, identity and expression in music

RE	How special is the relationship Jews have with God? I can explain what makes Jewish people believe they have a special relationship with God. I can ask questions and suggest some of my own responses to ideas about God. I can explore and suggest ideas about what is worth celebrating and remembering in religious communities and in my own life. I can discuss my own and other people's ideas about why humans do bad things and how people try to put things right. (Previous learning: see R,	What is the most significant part of the Nativity story for Christians today? I can explain what is the most significant part of the Nativity story for Christians today. I can compare different people's views on Christmas. (Previous learning: see R, Y1, Y2 & Y3 coverage)	How important is it for Jewish people to do what God asks them to do? I can describe different ways in which Jewish people show respect to God. (Previous learning: see R, Y1, Y2 & Y3 coverage)	Is forgiveness always possible? I can discuss if forgiveness is always possible. I can ask important questions about how forgiveness is possible. I can identify how it would feel to keep Kashrut. I can give my own views about how people decide right from wrong. (Previous learning: see R, Y1, Y2 & Y3 coverage)	What is the best way for a Jew to show commitment to God? I can explain how Jewish people might show their commitment to God. I can express opinions on which ways I think are best for Jewish people to show their commitment. (Previous learning: see R, Y1, Y2 & Y3 coverage)	Do people need to go to church to show they are Christians? I can describe some of the ways that Christians use churches to worship. I can explore and suggest ideas about what is worth celebrating and remembering in religious communities and in my own life. (Previous learning: see R, Y1, Y2 & Y3 coverage)
	(Previous learning: see R, Y1, Y2 & Y3 coverage)					

PSHE

Online relationships

I can use ICT safely including using software features and settings

I can show how information and data is shared and used Online

I can show that for most people the internet is an integral part of life and has many benefits

I can show the benefits of rationing time spent online, the risks of excessive time spent on electronic devices and the impact of positive and negative content online on their own and others' mental and physical wellbeing

I can explore why social media, some computer games and online gaming, for example, are age restricted

I can show where and how to report concerns and get support with issues online

I can show what a stereotype is, and how stereotypes can be unfair, negative or destructive

I can understand the terms 'discrimination' and 'Stereotype'

I can challenge stereotypes relating to gender and work

(Previous learning: see Y3 coverage)

Caring friendships

I can understand what selfesteem is and why it is Important

I can communicate my opinions in a group setting

Being safe

I can recognise the difference between isolated hostile incidents and bullying

Respectful relationships

I can understand the terms 'resilience' and 'persistence' and why these character traits are important

I can show an understanding of different types of bullying (including cyberbullying), the impact of bullying, responsibilities of bystanders (primarily reporting bullying to an adult) and how to get help

I can recognise bullying behaviour

I can understand why it is important to listen to others

I can communicate my opinions in a group setting

I can understand and appreciate the range of different cultures and religions represented within school

I can learn about the need for tolerance for those of different faiths and beliefs.

I can explore how to judge whether what they are feeling and how they are behaving is appropriate and proportionate (Previous learning: see N, R, Y1, Y2 & Y3 coverage)

Health and wellbeing

I can show what constitutes a healthy diet (including understanding calories and other nutritional content)

I can explore where different foods come from

I can show what constitutes a healthy diet (including understanding calories and other nutritional content)

I can understand the function of different food groups for a balanced diet

I can explore the principles of planning and preparing a range of healthy meals

I can prepare and cook a variety of dishes

(Previous learning: see N, R, Y1, Y2 & Y3 coverage)

Families and people who care for me

I can understand why it is important to listen to others

I can communicate my opinions in a group Setting

I can understand why it is important to listen to others

Mental wellbeing

I can show an understanding that isolation and loneliness can affect me and that it is very important for me to discuss my feelings with an adult and seek support

I can show an understanding that others' families, either in school or in the wider world, sometimes look different from their family, but that they should respect those differences and know that other children's families are also characterised by love and care.

I can understand that family units can be different and can sometimes change

(Previous learning: see N, R, Y1, Y2 & Y3 coverage)

Mental wellbeing

I can understand that everyone has different strengths and weaknesses

I can learn about the importance of self-respect and how this links to their own happiness

I can explore how to set realistic targets

I can understand how to break down the steps needed to achieve a goal

(Previous learning: see N, R, Y1, Y2 & Y3 coverage)

Families and people who care for me

I can understand how we are all connected by our similarities

I can show an understanding that stable, caring relationships, which may be of different types, are at the heart of happy families, and are important for children's security as they grow up

I can understand how the make-up of family units can differ

I can understand and appreciate the range of different cultures and religions represented within school

I can learn about the need for tolerance for those of different faiths and beliefs

Respectful relationships

I can explore what a stereotype is, and how stereotypes can be unfair, negative or destructive

I can understand the term 'diversity' and appreciate diversity within school

I can learn about the need for tolerance for those who are different from us

I can learn about and reflect on their own spending habits / choices

I can understand why financial management and planning is important from a young age

Risks

I can learn about and reflect on their own spending habits / choices

I can understand why financial management and planning is important from a young age (Previous learning: see N, R, Y1, Y2 & Y3 coverage) You can merge columns together if things run over the whole term. Consider what themes areas of learning you are focussing on. What is your vehicle for teaching? - e.g. the Mayas. This might cover the history and geography but it is not going to link with science and computing; these subjects will have a different vehicle for teaching. We need to move away from thinking about things as topics.