	Overarching Big Questions				
Y4/5 year cycle	Autumn	Spring			
Purple	ENERGY AND POWER Where does energy come from?	GROWTH AND CHANGES How do living things change and grow?	,		

SUBJECT: MATHEMATICS

Year 4	Autumn	Spring	
PURPLE	ENERGY AND POWER	GROWTH AND CHANGES	L
KNOWLEDGE	Pre-formal – Begin to be proactive in their interactions. Communicate consistent preferences and affective responses. Recognising familiar people, events, and objects. Perform actions often by trial and improvement and	Pre formal- Show an awareness of number activities and counting	Pre formal - Expresses pref
	remember learned responses over short period of times. Cooperate with shared exploration and supported participation.	Pupils are aware of cause and effect in familiar mathematical activities.	Early problem solving – trie
	Semi-formal- Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.	Show awareness in changes of:	Exerts autonomy in a variet
	Formal –Identify and describe the properties of 2-D shapes, including the	Shape	Develop early problem solv fails.
	number of sides and line symmetry in a vertical line Identify 2-D shapes on the surface of 3-D shapes, (for example, a circle on a cylinder and a triangle on a pyramid) Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces	Position Quantity	Look for a reduction in the action.
	Functional – Sort shapes into different properties (shape, size, colour, weight, thickness) e.g. items from the washing basket, food from a shopping basket, fruits from a fruit basket	Anticipate, follow and join in with familiar activities when given a contextual clue.	Semi formal –
		Search for objects out of sight, hearing or touch.	Metric Measures Measure, compare, add & volume/capacity (I/mI) Measure the perimeter or
		Match big and small objects.	Money • Add & subtract amounts
		Demonstrate interest in position and the relationship between objects.	practical contexts Time
			• Tell & write the time from numerals from I to XII, &

Summer

LIFE IN THE ENVIRONMENT

What can we learn from our environment?

Summer

LIFE IN THE ENVIRONMENT

reference for items not present via symbolic means

ries new strategies when old one fails

riety of contexts

olving – e.g. ability to try a new strategy when old one

he time during which the learner tries the original

I & subtract: lengths (m/cm/mm); mass (kg/g);

r of simple 2-D shapes

ts of money to give change, using both £ & p in

om an analogue clock, including using Roman & 12-hour & 24-hour clocks

Semi formal – The learner is; • supported to join in rote counting to 9/10 • taught to count back from 5 • taught to rote count onwards from a given small number	 Estimate & read time wit & compare time in terms as o'clock, a.m./p.m., mo Know the number of second month, year & leap year Compare durations of event tasks]
Counting The learner is; • taught to count at up to10 objects reliably • taught to estimate a small number (up to 10) and check by counting • taught to show an understanding that the last number counted represents the total number of the count Recognising representations The learner is; • taught to make a subset of up to 5 objects	Formal – Rote Counting The learner is; • supported to join in rote • taught to count back from • taught to rote count onw Counting The learner is; • taught to count at up to 1
Recognising and recording numerals The learner is; •taught to recognise numerals 1-5 in familiar contexts. • Understand that each numeral represents a constant number,	 taught to estimate a sma taught to show an unders the total number of the of Recognising representation The learner is; taught to make a subset of
 Compare and order The learner is; taught to recognise the difference in quantity taught to use the language of 'more' and 'less' to compare two sets of objects. Taught to find one more or less from a group of five objects. Fractions 	Recognising and recording The learner is; •taught to recognise nume • Understand that each nume
The learner is; Taught to Break/share things into two or more parts Formal –	Compare and order The learner is; • taught to recognise the d • taught to use the languag objects. • Taught to find one more

ith increasing accuracy to the nearest minute; record as of seconds, minutes & hours; use vocabulary such norning, afternoon, noon & midnight conds in a minute & the number of days in each r

ents [e.g. to calculate the time taken by events or

e counting to 9/10 om 5 wards from a given small number

10 objects reliably

all number (up to 10) and check by counting erstanding that the last number counted represents count

ons

of up to 5 objects

g numerals

erals 1-5 in familiar contexts.

umeral represents a constant number,

difference in quantity age of 'more' and 'less' to compare two sets of

e or less from a group of five objects.

	Rote Counting	
	 Independently rote count to 20 	Fractions
	•Count back from 10	The learner is;
		Taught to Bre
	Counting	
	•Be able to count at least 20 objects accurately 1 by 1	
	•Reliably count up to 10 objects that move or can't be seen (e.g. bubbles, runners in a race, objects being dropped into a tin)	
	•Accurately count out a small number of objects from a larger group (e.g. count out twelve pieces of Lego from a box of bricks)	
	 Apply counting skills 0-20 to play simple games and use in role play/life skills activities (contextual) 	
	•Show an understanding that the number items remain the same, even when rearranged.	
	•Understand that the order in which a number of items are counted does not matter but that each object in a collection must be counted once	
	Recognising Representations •Automatically recognise pictorial representation of numbers 1-10 e.g. dice and Numicon	
	Compare and Order	
	•Order numbers to 10 then 20 e.g. place numbers correctly on a 0-10	
	•Compare two or more numbers up to a value of 10	
	•Begin to use in context the language of more/less, bigger/smaller, the same	
	•Know the number that is one more or one less that any given number to 10 then 20	
	•Automatically recognise pictorial representation of numbers 0-10	
	•Recognise 0 as an empty set	

eak/share things into two or more parts

		Counting •Count at least 30 objects accurately, one by one	
		 Compare and Order Order numbers 0-30 Know the number that is one more or one less than any given number to 30 Compare two or more numbers up to a value of 20 Compare, describe & solve practical problems for: Compare objects directly focusing on one dimension where the difference in size is less obvious. Begin to use comparative language e.g fast/slow, long/short, heavy/ light, full/empty in a range of contexts and practical applications to make simple estimates and check accuracy using nonstandard units. Money In shopping activities use up to ten 1p coins to buy objects up to a value of 10p. Recognise and sort 1p, 2p and 5p coins by the size, shape and colour. Time Sequence chronologically three daily events. Understand and use in context some terminology relating to passage of time i.e. before, after, later, next. 	
Se	Pre-formal – Big, small, heavy, lifgt, shape, feel, look, hard, soft, Gemi-formal-Addition and subtraction: add, more, and, make, sum, total, altogether, double, one more, two more ten more, how many more to	Pre formal long, short, bigger, smaller, heavier, lighter, empty, full, half full, days of the week, months of the year, seasons, coins	Pre formal before, after, Semi formal Greater, lesser
av	nake?, how many more is than?, how much more is?, take way, how many are left/left over?, how many have gone?, one less,	Semi formal	Add
	wo less, ten less , how many fewer is than?, how much less is?, lifference between.	o'clock, half past, mass,	More
		weight, volume and	Sum Total
	formal – Properties of shape: shape, pattern, flat, curved, straight,	capacity, before and after,	Double Half
	ound, hollow, solid Sort, make, build, draw, size bigger, larger, smaller, symmetrical, pattern, repeating pattern, match 2-D shape: corner, side,	next, first, morning,	
		afternoon and evening, use	Formal

r, next, last, now, soon, early, late, quick,

rectangle (including square), circle, triangle 3-D shape: face, edge,	language relating to dates,	Halve
vertex, vertices, cube, pyramid, sphere, cone.	day, days of the week	Subtract
	day, days of the week,	Take away
	month/names of months,	Difference between
		Equals
	year, money, coin, penny, pence, pound,	Number bonds
		Number pairs
		Missing number
	Formal	Count
		Sort
	short, tall, high, low,	Group
	thick, thin, longer,	Set
		List
	shorter, taller, higher,	Table
	full helffull exects	
	full, half full, empty,	
	holds, containers, money,	
	coin, total, buy, morning,	
	afternoon, evening,	
	night, midnight, today,	
	vectorday tomorrow price cost huy cell coord coort nov	
	yesterday, tomorrow, price, cost, buy, sell, spend, spent, pay,	
	change,	
		1

SUBJECT: IT

Year 4	Autumn	Spring	5
PURPLE	ENERGY AND POWER	GROWTH AND CHANGES	LIFE IN T
DISCIPLINARY KNOWLEDGE	Pre-formal – To attend an adult in a 1:1 situation for up to 5 seconds. To track and follow a visual stimulus moving through visual field. To carry out meaningful actions when exploring mediums.	Pre-formal – To choose a sound they would like to listen to using their communication method. To know how to contribute to music making. To know they can vocalise and use instruments to tap expressively along to popular songs.	Pre-Formal - To make a choi photos. To approach anothe to get attention.
	Functional Pre-Formal – To track moving images. To respond to cues that signal the start of an activity. To identify activities, they like and don't like.	Functional Pre-Formal – To identify activities they would like to do or have no interest in doing.	Functional Pre-Formal – To a another person talking to th

Count Sort Group Set List Table

Summer

N THE ENVIRONMENT

hoice of three or more real objects or ther person, then vocalise/touch/gesture

To attend by looking at or towards them.

	Semi-formal – To know not to give name and personal details out online	Semi-formal – To listen and use audio equipment to make	Semi-formal – To identify marked differences and similarities
	without checking with an adult. To name adults that they know and	sound. To know how to use functions on technical devices to	between themselves and others. To take part in collecting data
	trust. To know to tell an adult if a stranger is talking to them online.	manipulate a sound for a purpose. To use on screen symbols	with their friends. To look towards a graph when a teacher is
		to navigate a program.	talking about it.
	Functional Semi-Formal – To interact with familiar and unfamiliar adults appropriately.	Functional Semi-Formal – To communicate preferences.	Functional Semi-Formal – To demonstrate understanding of an increasing number of verbal requests.
	Formal – To understand not to give personal details online if someone asks. To know how to stay SMART. To watch videos about online safety.	Formal – To use a recording device to record sounds and people. To use equipment to record sound and then play back	Formal – To explore simple counting and data handling programs.
	To explain what is good online behaviour and what is not.	to share with others. To know how to manipulate sounds on a	
		range of devices.	To contribute to a simple class graph or table. To use a simple data collection programme to create a graph using data from peers.
			conection programme to create a graph using data from peers.
	Functional Formal – To know who trusted adults are. To know the		
	difference between good and bad.	Functional Formal – To communicate their personal needs to	Functional Formal – To follow one step directions.
		another individual.	
VOCABULARY	Pre-formal – track, follow, visual stimulus, meaningful	Pre-formal – choose, listen, contribute	Pre-formal – real objects, approach, attention
	Functional Pre-Formal – track, respond, identify	Functional Pre-Formal – identify, like, dont like	Functional Pre-Formal – attend, talk
	Semi-formal – personal details, check, tell, stranger	Semi-formal – use, audio, functions, navigate	Semi-formal – identify, differences, similarities, collecting data, graph
	Functional Semi-Formal – interact, appropriate	Functional Semi-Formal – communicate	Functional Semi-Formal – understanding
	Formal – personal details, SMART, videos, online safety	Formal – use, recording, equipment, manipulate	Formal – explore, handling data, graph
	Functional Formal – trusted adult, good, bad	Functional Formal – communicate to another	Functional Formal – follow directions

SUBJECT: Science

	Spring	Autumn	Year 4
	GROWTH AND CHANGES	ENERGY AND POWER	PURPLE
	Learn about the changes experienced in puberty	Disciplinary Knowledge	DISCIPLINARY
	Know that good food & nutrition give energy to all living things		KNOWLEDGE
Know that electri	Know that not all living things thrive (plants that have not been watered, living	Explain what a force is understanding of. pushing, pulling,.(twisting, gravity, magnetism, friction, electric)	
	eggs that did not make it, may be an opportunity to remember friends in the	Think about consequences of too much force / too little force (door will or will not close)	
Lights / noises & bl	special garden)		
Switches in differer items, nail drying it phones, fridges, fre automatic bins, vac	Know that the correct combination of nutrients are needed for living things to thrive (identify what is needed to thrive including sunshine – what happens when we do not have these)	Learn about / explore everyday use and value of knowing how much force is needed to e.g. open close doors, open packet of crisps, *using puppets, reading pop-up books, performing actions, threading beads, digging and lifting sand, riding bikes, weaving and playing percussion instruments. Explore twisting toys, magnets	
		Know what gravity is	
Know that electric no loose wires,	Know that photosynthesis relies on the sun (what do students think will happen if plants do not have sunshine? Explore shades / hues of green, yellow – do they see them at different stages of plants that do not thrive?)	Know how to record on simple charts – eg. Tally or tick in simple columned chart – gentle /little force, more force, lots of force, loads of force.	
	Know that crops and plants can spread (<i>e.g. chives, mint</i>)	Evaluate risk of e.g. too much force when slamming a door – not pushing peddles hard enough on a bike	
Know h		Welcome the views of others	
	Know that humans affect eco-systems negatively (e.g. plants, animals and tiny	Communicate efficiently to a range of audiences	
Know that plugs	tiny animals (organisms) interacting together - if we allow too much water – will plants grow? Too many animals in one space, will they survive? Too many plants, will they grow well?)	Plan and observe how far a ball travels when different amounts of forces are used - Test, Hypothesise, (guess) Explore	
and green	Know that humans affect eco-systems positively (ensure there is just about enough water - will plants grow?)	Use a range of apparatus and materials safely including measuring equipment, chosen everyday items, recording items, mark making items, graphs / charts	
Know tha		Make accurate measurements and observations	
		Experiment with e.g. different sized balls	
Knov	Know that farmers breed animals for food – cows- beef, chicken, sheep– lamb / mutton, turkey	Where appropriate, collect present and analyse data	
Know that a		Estimate	
		Notice patterns, repetitions	

Summer

LIFE IN THE ENVIRONMENT

ricity can be used safely for a number of purposes will help them to enjoy everyday life.

bleeps to indicate on / off/ too hot/ cold.

ent places for e.g. footspa, hair dryer, hair styling items, shavers, hair grooming items, TV, ipads, reezers, dishwashers, microwaves, ovens, acuum cleaners etc

icity can be dangerous if not used safely (dry hands, es, not too many plugs, away from water, with a responsible adult)

how to safely activate electrical devices

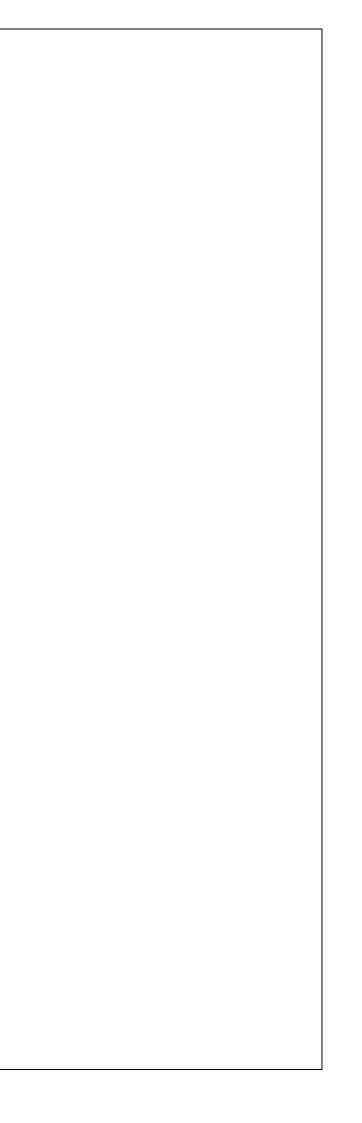
s are wired with different coloured wires - -yellow en = *Earth*, Blue = *Neutral* and Brown = *Live*.

at there are colours of the wires on a plug.

ow that we have a circulatory system.

an electrical signal helps our hearts to beat

Draw conclusions about how much force is needed for everyday activities	Know farmers intensely farm crops
everyday activities Know that force is an amount of energy. Know that when a ball is dropped, thrown, bounced or rolled, the force will impact on haw hard it touches a surface and how far, high it may bounce or roll. Know that a force is a push or a pull. Forces change how fast on object goes and its direction. Know that the impact of forces can be measured e.g. a big bounce makes a ball bounce higher - or the big push of a ball makes it go higher – basketball Know how forces relate to everyday life	Know that science intervention aids the growth of crops and animals (making a change in order to study the outcome of what has been changed – e.g free range, grass, corn fed animals, = healthier animals = better quality meat. Check quality of food – make comparisons – e.g healthy grass, dry grass – what will be better for animals to eat?) Know the difference between water, soils and the atmosphere- (abiotic non living components), and plants, animals and bacteria – (biotic ecosystems – living things within an ecosystem)



		-	
KEY VOCABULARY	Pre-formal – push pull twist	Pre-formal- energy.	
	Semi-formal – friction	Semi- formal- photosynthesis	
	Formal – magnetism	Formal eco-systems	
	Functional – gravity - because of a little something we call gravity, everything is pulled towards the ground Including you without the force of gravity. There would be no life on earth. what is gravity - Google Search	Functional- non living (<i>abiotic</i>) and living (<i>biotic</i>)	Functional Boo
KEY VOCABULARY	Semi-formal – friction Formal – magnetism Functional – gravity - because of a little something we call gravity, everything is pulled towards the ground Including you without the force of gravity. There would be	Semi- formal- photosynthesis Formal eco-systems	Func

Pre-formal- Power

Semi- formal Plug

Formal- Electricity

odily functions. Cardio vascular and Circulatory.

Year 4	Autumn	Spring	
PURPLE	ENERGY AND POWER	GROWTH AND CHANGES	
KNOWLEDGE	Communication, Tracking, Phonics, Reading, Writing, Handwriting, Early Reading and Prerequisites for Literacy are taught through a variety of schemes appropriate to each student, such as the use of an Eye Gaze, Read Write Inc. (RWI) Fresh Start programme and See and Learn.	Communication, Tracking, Phonics, Reading, Writing, Handwriting, Early Reading and Prerequisites for Literacy are taught through a variety of schemes appropriate to each student, such as the use of an Eye Gaze, Read Write Inc. (RWI) Fresh Start programme and See and Learn.	Communication, T Early Reading and variety of schemes Eye Gaze, Read W Learn.
	Please follow sequenced plans / schemes etc for individual students identified to follow a scheme.	Please follow sequenced plans / schemes etc for individual students identified to follow a scheme.	Please follow sequidentified to follow
	Pre-formal – to continue to respond consistently to familiar voices.	Pre-formal – to begin to sustain concentration for short periods.	Pre-formal – to co
	To continue to track familiar objects and people in social spaces.	To begin to sustain interest in mark-making for short periods.	To continue to sus
	To be proactive in their interactions.	To manipulate objects with hands.	To show interest i
		Semi-formal-	
	Semi-formal-	Speaking- To answer a variety of questions.	Semi-formal-
	Speaking- To retell a simple past event in correct order.	Listening – To listen and respond appropriately to instructions	Speaking- To discu
	Listening – Is able to stop what they are doing and briefly give attention to adult speaking to them.	Reading – To use finger to point to words and symbols.	Listening – To sho
	Reading – To show reading like behaviour by turning the pages in the book.	Writing – To copy some letters/letter shapes accurately.	Reading – To reco

Summer

LIFE IN THE ENVIRONMENT

, Tracking, Phonics, Reading, Writing, Handwriting, nd Prerequisites for Literacy are taught through a nes appropriate to each student, such as the use of an Write Inc. (RWI) Fresh Start programme and See and

equenced plans / schemes etc for individual students low a scheme.

continue to sustain concentration for short periods.

sustain interest in mark-making for short periods.

t in objects.

scuss why?

how a response to humour

cognise some letters of the alphabet

Writing – To make marks using a variety of media pens, pencil, paint brush, etc.	Formal –	Writing – To copy
Formal –	Reading – To continue to learn new vocabulary, relating it explicitly to known vocabulary and understanding it with the help of context and dictionaries	Formal –
Reading – To begin to learn new vocabulary, relating it explicitly to known vocabulary and understanding it with the help of context and dictionaries	Writing - To continue to consider how their writing reflects the audiences and purposes for which it was intended	Reading – To begi
Writing - To begin to consider how their writing reflects the audiences and purposes for which it was intended	Grammar and vocabulary – To use Standard English in their own speech.	Writing - To consi purposes for which
Grammar and vocabulary – To continue to understand the differences between spoken and written language.	Spoken English – To continue to summarise and/or build on what has been said in previous structured discussions.	Grammar and voca grammatical const their writing
Spoken English – To begin to summarise and/or build on what has been said in previous structured discussions.		Spoken English – T range of formal co
	Functional – To make a 'how to' video, book for a younger cluster.	
Functional – To share with others a newspaper article, video, news broadcast about a current energy related issue e.g. wind farms etc.		Functional – To ho students the oppo
Y Pre-formal – Use and describe writing genres - piece	Pre-formal – grow - verb	Pre-formal – adve
Semi-formal – Use and describe writing genres - newspaper	Semi-formal – progress (uncountable noun)	Semi-formal – cha
article	Formal – life process (noun or verb)	Formal – plot
Formal – Use and describe writing genres - controversy	Functional – instructional - adjective	Functional – book
Functional – Use and describe writing genres – problem		
	etc. Formal – Formal – Reading – To begin to learn new vocabulary, relating it explicitly to known vocabulary and understanding it with the help of context and dictionaries Writing - To begin to consider how their writing reflects the audiences and purposes for which it was intended Grammar and vocabulary – To continue to understand the differences between spoken and written language. Spoken English – To begin to summarise and/or build on what has been said in previous structured discussions. Functional – To share with others a newspaper article, video, news broadcast about a current energy related issue e.g. wind farms etc. Pre-formal – Use and describe writing genres - piece Semi-formal – Use and describe writing genres - newspaper article Formal – Use and describe writing genres - newspaper	etc. Formal – Formal – Reading – To continue to learn new vocabulary, relating it explicitly to is known vocabulary and understanding it with the help of context and dictionaries Reading – To begin to learn new vocabulary, relating it explicitly to known vocabulary and understanding it with the help of context and dictionaries Writing - To continue to consider how their writing reflects the audiences and purposes for which it was intended Writing - To begin to consider how their writing reflects the audiences and purposes for which it was intended Grammar and vocabulary – To use Standard English in their own speech. Spoken English – To begin to summarise and/or build on what has been said in previous structured discussions. Spoken English – To begin to summarise and/or build on what has been said in previous structured discussions. Functional – To share with others a newspaper article, video, news broadcast about a current energy related issue e.g. wind farms etc. Pre-formal – grow - verb Functional – To share with others a newspaper article, video, news broadcast about a current energy related issue e.g. wind farms etc. Pre-formal – grow - verb Semi-formal – Use and describe writing genres - newspaper Semi-formal – grow - verb article Formal – life process (noun or wrb) formal – Lise and describe writing genres - controversy Formal – life process (noun or wrb)

y some	letters/letter	shapes	accurately
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gin to study setting, plot, and characterisation

nsider how their writing reflects the audiences and nich it was intended

ocabulary – To begin to use new vocabulary and nstructions from their reading and listening, within

To begin to use standard English confidently in a contexts, including classroom discussion

hold an event / story session in the library to give portunity to share the story they create with others

venture - noun

haracter - noun

- noun

ok collection - noun

L		1	

SUBJECT: HISTORY / GEOGRAPHY

Year 4	Autumn	Spring	Summer
PURPLE	ENERGY AND POWER	GROWTH AND CHANGES	LIFE IN THE ENVIRONMENT
KNOWLEDGE		Know how a river grows as it forges through landscapes – make a model river -some information can	Know what an activist is (someone who takes
	Know that all people have rights to live freely, safely, food, water, exercise,	be found in this video	action to improve e.g. for clean water, to keep landscapes, to stop trains going through towns and
	fresh air, health, vote, work & earn, financial stability, share views, travel,		villages,
	choose lifestyles (Use text, or textures found near beach, to create posters /		
	banners to say yes to each of these – create chant e.g. water for all, yes, yes	Geography with Grammarsaurus - How is a river formed? (youtube.com)	
	– use drums to create rhythm as they march around chosen environment,		
	role play unfair situations – what should happen?)		Know how people protest about environmental
		make water source, make water run downhill through different pathways, quickly, narrow pathways,	change (check own environment – is it polluted?
		wider pathways, slowly, loops, curves, erosion of mud, oxbow lakes disappearing, lower flatter water	How can it improve? How can the message be
		ocean, lake, flood	shared? Role play not having enough water – no
	water – include rights pertinent to purple cluster)		water, no washing, drinking, cleaning, growing,
			pool fun etc what would they like to protest about?
	Know how to make good choices and show fairness in range of scenarios.	Know what an ox-bow lake is -	Are the school grounds clean enough? Is there
	Know that coastlines can be made up of sand, rocks, plants including		enough pool access to stay fit and healthy?)
		Know how an ox-bow lake is formed (the remains of a bend in a river where water stays still and	
	coastlines)	stagnates)	
			Know where the Suez canal is – <i>know that it is the</i>
	Know what low energy is (e.g. small waves –)		shortest link between the east and west – Asia and
			Africa
	Know how to represent experiences of low energy waves create own small	Know what fides are – the regular rise and fall of sea levels	
	waves.		ASIA
	Know that low energy coastlines are usually near sandy beaches (outline of		Suez
	Britain surround with sand and name of key destinations – ask families	Know that tides grow and fall away from the edge of land.	
			@2013.4cyclopadd/dotoring, lis.
	where they have visited – e.g. Devon and Cornwall.		
	Know low energy coastlines in Britain that could be visited (e.g. Devon /	Know that high tides are not safe.	
	Cornwall)		Know that historically men engineered the Suez
			canal - an artificial waterway between the east
	Know what high energy is (e.g. larger waves)		and west – Asia and Africa – Use previous
		Know how to be safe at the seaside.	knowledge to make an artificial waterway – find an
	Know how to represent experiences of high energy waves		appropriate spot outside to make an artificial

Know that high energy coastlines are usually seen near rocks and cliffs.

Know that the larger waves of high energy coastlines usually cause erosion. Know how the sea is affected by climate change.

Know high energy coastlines in Britain that could be visited (e.g. Devon /

Cornwall)

Identify photographs of low energy coastlines in Britain.

Identify photographs of high energy coastlines in Britain.

Compare coastlines in Britain



The UK's best coastlines | Stay In Cornwall

Know that the polar ice caps are melting.

Know that this means more water in the sea.

Know man's affect to coastal regions (how can we look after our environment?)

Know what a stack and an arch are (weathering of a rock making an arch or a stack); (a cave beca larger. The back breaks through and becomes an arch. The roof becomes heavy and collapses into sea leaving a stack or stump

Use chalk to help demonstrate erosion



Know where Durdle Door is (Dorset) *Durdle Door is probably the most famous stone arch anywhe* the world. It was created when the sea pierced through the Portland limestone around 10,000 year ago.



Recognise arches within own environments.

Know what weathering means.

KEY VOCABULARY	Pre-formal – share, beaches	Pre-formal- River Mouth
	Semi-formal – fair, sandy beaches, rock beaches	Semi- formal- Tides
	Formal – protected, high energy waves	Formal- Weathering

	waterway ideally from one place to another – can be small scale!
	Know a famous female engineer
	<u>Celebrating our women in engineering Canal &</u> <u>River Trust (canalrivertrust.org.uk)</u>
	5 Famous Women Engineers That Shaped The World - ESILV Graduate School of Engineering, Paris Thomas Edison Biography, Early Life, Inventions, &
	<u>Facts Britannica</u>
oro in	
ere in rs	
	Pre-formal- unhappy
	Semi- formal- protest
	Formal- activist

SEMH

SUBJECT: PSHE

Year 4	Autumn	Spring	
PURPLE	ENERGY AND POWER	GROWTH AND CHANGES	
	(Healthy lifestyles and self-awareness focus)	(Managing feelings and self-care, support and safety focus)	(The w
KNOWLEDGE	 Know how to use functional objects safely. Know how to interact with trusted adults appropriately. Know what is meant by personal safety. Know and explain what is mean by 'risky' (something could go wrong). Know and identify situations and behaviours in and out of school including online which may not be safe. Know who trusted adults are how they can help us in risky situations. know and respond to ways of reducing risk and keeping safe in a range of environments including online. Know when and why taking risks can be positive e.g. trying something new. Know and respond to what it means to take care of their bodies and keep them safe. 	Know and give examples of when we might feel strong emotions. Know ways of managing strong emotions. Know about stereotypes; how they can negatively influence behaviours and attitudes towards others; Know and identify some things we can do to support our physical and mental wellbeing. Know what unwanted physical contact means. Know when to tell someone if anyone makes us uncomfortable or worried. Know and explain what personal space means.	Know and given on the second s
KEY VOCABULARY	Pre-formal – safer Semi-formal – risk Formal – risky Functional – reduced risk	Strong emotion, stereotypes, behaviour, physical/ mental well- being, physical contact, personal space.	

Summer

LIFE IN THE ENVIRONMENT

world I live in and changing and growing focus)

give examples of how to stay safe at the beach, in the on the road, in public places (stranger danger) etc.

identify different living things people can care for e.g. pets.

l show compassion for other living things e.g. wildlife, pets and identify

e shared responsibilities we all have for taking care of eople, living things and the environment we live in.

everyday choices can affect the environment positively cing, reusing, recycling and negatively e.g. single use plastic, waste, pollution.

Care, compassion, dangerous,

SUBJECT: RE

Year 4	Autumn	Spring	Summer
PURPLE	ENERGY AND POWER	GROWTH AND CHANGES	LIFE IN THE ENVIRONMENT
DISCIPLINARY KNOWLEDGE	Know that people can have different views/opinions	Know some of the key celebrations that the focus religions celebrate (e.g. Christmas, Easter, Eid, Hanukkah) and compare these with the ones that you celebrate	Know what traditions are
	Know that different religions have different ideas about the creation of the world	Know that a birthday is a celebration of the day you were born	Know some key traditions for Christians including ways in which individuals express their commitment and identity
	Know how Christians believe the world was created	Know how focus religions celebrate birthdays and compare similarities and differences	Know some key traditions for Buddhists including ways in which individuals express their commitment and identity
	Know how Hindus believe the world was created		Know how to make comparisons with personal traditions and
	Know how Sikhs believe the world was created	Know some of the key rites of passage for the focus religions e.g. Baptisms, Bar Mitzvah, Marriages, Muslim birth ceremony, Hajj (pilgrimage to Mecca)	those of the focus religions
			Know some of the key changes in religion and culture over time
	Know that we belong to a community	Know how the focus religions celebrate/mark the occasions of birth and death	line
	Know that there are lots of different communities nationally and globally	Know that people are born and people die	Know how to explore diversity within religion
			Know how to explore different worldviews both religious and non-religious
	Know how to develop community cohesion	Know that some religions believe in an after life	non-rengious
	Know what respect is and its importance	Know that some religions believe in resurrection	Know that peoples ethical judgements can be based off their religious beliefs
	Know what diversity is	Know that some religions believe in heaven and hell	Know how and why individuals and communities express the meanings of their beliefs, traditions and values in many
	Pre-formal –	Pre-formal –	different forms and ways of living
	Semi-formal –	Semi-formal –	Pre-formal –

	Formal –	Formal –	Semi-formal –
	Functional –	Functional –	Formal –
			Functional –
KEY VOCABULARY	Pre-formal – Different	Pre-formal – Birth / Death	Pre-formal – Commitment
	Semi-formal – Community	Semi-formal – After Life	Semi-formal – Tradition
	Formal – Unique	Formal – Resurrection	Formal – Religious Identity
	Functional – Diversity	Functional – Rites of passage	Functional – Ethical judgement

<u>PSM</u>

SUBJECT: ART

Year 4	Autumn	Spring	
PURPLE			
	ENERGY AND POWER	GROWTH AND CHANGES	
DISCIPLINARY KNOWLEDGE	Know how to use ICT to experiment with different colours and patterns	Know how to experiment with drawing using a range of	Know how to mak
		different lines, tones, forms, shapes and sizes	would
	Know how to use painting programs to create a picture/poster for a purpose		
		Know how to experiment drawing from observation of real	Know how to select
	Know how to use a range of tools on an ICT art program e.g. fill, brushes in a	objects/artefacts	
	painting package		
		Know how to communicate ideas through drawings	Know the di
	Know how to save their work		
		Know how to draw for a specific purpose and audience e.g.	Know the difference
	Know how to go back and edit/change their work	create a poster for an event	
	Know how to create a pattern using ICT thinking about colour and design	Know how colour, shape and size can have an effect on a	Know how to creat
	Know now to create a pattern asing fer timiking about colour and design	drawing	and joining th
	Pre-formal –		

Summer

LIFE IN THE ENVIRONMENT

nake choices about what materials and techniques Ild work best for each specific purpose

ect the right tool for the job e.g. camera/iPad device to take a photograph

difference between landscape and portrait

nce between 3-Dimentional (3D) and 2-Dimentional (2D) artworks

ate 3D collages using a range of materials collected them together using appropriate techniques

	Semi-formal –	Know what a still life drawing is	Know how to us
	Formal – Functional –	Know some of the key famous still life artists throughout history	
		e.g. Jan Davidsz de Heem, Paul Cézanne, Vincent van Gogh	Know how to i
			с
		Pre-formal –	
		Semi-formal –	Pre-formal –
		Formal –	Semi-formal –
		Functional –	Formal –
			Functional –
KEY VOCABULARY	Pre-formal – pattern	Pre-formal – shadow	Pre-formal – photo
		-	Semi-formal – 3D/2
	Semi-formal – edit	Formal – still life	Formal – landscape
		Functional – perspective	Functional – comp
	Formal – digital evaluate		
	Functional – design		

SUBJECT: DT

Year 4	Autumn	Spring	
PURPLE			
	ENERGY AND POWER	GROWTH AND CHANGES	LIF
KNOWLEDGE	Know how to use manual appliances	Know how our bodies change and what nutrition we need to	Know how our enviro
	Know how much energy is needed to e.g whip an egg / whip an egg	sustain them	happy / xxx boxes c
	white for a meringue		
	Know that energy can be manual or electronic		
	Know that manual energy usually takes longer than electronic		
	Using own knowledge and experience, develop a recipe for an	Know how to research ideas for a project (explore plants at	
	occasion	different stages of growth, use leaflets to gather information about	Know where to go to
	Using own mode of communication, share recipe	growth of e.g. plants, how to grow certain fruit and vegetables, safe	window box, peace
	Develop menu including original recipe	internet research, use DT models to show changes following	photo album wit
	Prepare foods with e.g. different herbs $-$ complete a pol $-$ e.g.	research)	
	cheese toastie with origami / mint / rosemary	,	
	Know how to prepare a nutritious meal		
	Know that recipes may go wrong		
	Know how to make necessary changes		
	Know how to solve problems		

use a device to take photographs from a range of perspectives/angles

to make independent creative choices about the composition of artworks created

otograph D/2D ape/portrait nposition

Summer

LIFE IN THE ENVIRONMENT

ironment makes you happy (Design and make s consider shape, colours size to match items inside)

to find peace (Develop peace item (e.g. flower ace pebbles from environment, music tracks, with positive memories...ensure it is easily accessible)

inspiration for ideas might be different now compared to ve were younger (planning a meal e.g. fish fingers when r, now may think about vegetables. Ice cream, now may er fruit – plan healthier meals – make healthier choices) v to work as a team effectively (work together on a project making a simple model, a working model or planning a healthier meal) how to predict an outcome – e.g. what will happen if ave a carrot in a bag in a warm environment over a long	environments <i>(explo bird boxes j</i> Know how to
naking a simple model, a working model or planning a healthier meal) how to predict an outcome – e.g. what will happen if	t Know h
	Know how to
period of time	
ow that fresh foods spoil <i>predict, observe, record</i>	
v to store fresh food safely – design safe effective storage food – what do they need to remain as fresh as possible? Holes, space, cold environment	
Pre-formal- grow	
emi-formal- blight (diseased – e.g. rust or mildew) Formal- Arable (land suitable for growing crops)	Semi-formal- flora fauna are all
	Fui
f	period of time ow that fresh foods spoilpredict, observe, record to store fresh food safely – design safe effective storage food – what do they need to remain as fresh as possible? Holes, space, cold environment Pre-formal- grow

SUBJECT: MUSIC

Year 4	Autumn	Spring	
PURPLE			
	ENERGY AND POWER	GROWTH AND CHANGES	LIFE I
DISCIPLINARY	Know that you can play music using different dynamics	Know that you can compose your own music	Know what a
KNOWLEDGE			
	Know how to recognise the difference between loud and quiet sounds	Know that it is important to write down what you have composed so	Know what an ι
		that you can remember it and so that other people can play what you	
	Know how to play a simple instrument /sing quiet and softly (piano)	have written	Know that tuned percuss
			pitches,
	Know how to play a simple instrument/sing loudly (forte)	Know that what you have written is called music notation and this can	
		be presented in different ways	Know some examples of tu
	Know how to copy a simple beat / song using pitch and expression		
		Know/explore some of the ways that music can be notated e.g. sheet	
	Know how to use devices to record sounds made	music, pictures	

esearch ideas to better your favourite school ploration of items, environments, music, simple es for bird watching, bug hotel design)

to build a project from your own plans

how to evaluate your own project

to be safe working with hazardous tools

Pre-formal sunshine

ra and fauna (Flora are all the plants and ll the animals – e.g. trees and birds)

Formal facilities

unctional – Health and Safety

Summer

FE IN THE ENVIRONMENT

t a tuned percussion instrument is

in untuned percussion instrument is

ussion instruments have set specific notes and les, whereas untuned do not

tuned and untuned instruments and how to pay them

	Know how to replay sounds that have been recorded	Know how to notate music by using pictures to show different instruments and recognise when a new sound/ instrument is being	Know that you can use ma
	Know how to make music for a specific purpose	added	Know how to use and pla
	Know the difference between the terms crescendo (getting louder) and diminuendo (getting quitter) and how to recognise this in songs	Know how to compose music with different sections e.g. verse, chorus	Know the difference be
			Know how to create tune
	Know how to create a crescendo and diminuendo using simple	Pre-formal –	untun
	instruments/voice	Semi-formal –	
		Formal –	Pre-formal –
	Pre-formal –	Functional –	Semi-formal –
	Semi-formal –		Formal –
	Formal –		Functional –
	Functional –		
KEY VOCABULARY	Pre-formal – introduction/ending	Pre-formal – structure	Pre-formal – instrument
	Semi-formal – forte /piano	Semi-formal – verse, chorus	Semi-formal – percussion
	Formal – Crescendo/ diminuendo	Formal – music notation	Formal – tuned/untuned (
	Functional – dynamics	Functional – composition	Functional – music scores

SUBJECT: PE

Year 4	Autumn	Spring	
PURPLE	ENERGY AND POWER	GROWTH AND CHANGES	
KNOWLEDGE	Know that physical activity is necessary to promote bone, muscle and heart health.	Know that as we get older our bodies change.	
	Know that games help to develop bones, muscles and the heart. Know the basic rules of team games.	Know the importance of warming up.	
	Know that they can participate in team games. Know that they can lead games.	Know that teams are identified using strips.	Know h
	Know that they can plan sports with support	Know to stretch and reach for objects.	
		Know simple rules.	
		Know how to remain safe using equipment in PE.	Kn
		Know to cheer for your team.	Know how
		Know how to be a good loser.	
KEY VOCABULARY	Vocabulary		
	Pre-formal – strong muscles	Pre-formal- warm up	
	Semi formal – improved skills	Semi-formal- Stretch	
	Formal – lead	Formal- Team work	
	Functional- organised games	Functional collaboration	

materials from the environment to create untuned instruments

play percussion instruments in a set performance

between performing as a group and as a solo

nes, beats and melodies on a range of tuned and uned percussion instruments

n | (World percussion instruments) s

Summer

LIFE IN THE ENVIRONMENT

Know that there are summer games.

Know how to apply sun cream.

how to adapt if the weather becomes inclement.

Know how to collect PE resources.

Know how to be safe during PE.

Know how to shower and cleanse our bodies. Know how to dry bodies after showering.

ow to apply deodorant or personal hygiene products.

Pre- formal- Outside games Semi-formal- equipment Formal- Hygiene Functional- Personal Hygiene products.