Jennett's Park Primary School - Year 5 Long Term Plan 2022-23								
Topic	Sp	ace		Japan		Ancient Egypt		
WOW, trips, resources		Planetarium	Martial arts workshop	Interactive talk – what is it like to be at school in Japan?	Canopic Jars			
Literacy	Audio-visual description     Create a persuasive piece about why someone should visit our planet as their holiday destination.      Write a setting description about our planet      Science double page spread about planets-fact file      Mission to Mars	Create a biography of Katherine Johnson Write a Sci fi short story Create a poem in the style of 'The Witch'  Writing up an investigation for science	Retelling Japanese folk tale  News report about a tsunami  Literacy Shed Plus – For the Birds, Friendship writing  Haiku	Non-chronological report on martial arts     Adventure story based n The Uncommoners by Jennifer Bell	Balanced argument: should it be made illegal to excavate tombs?     Actionadventure story     Write up scientific investigation into mummification     persuasive speech linked to Earth day	Holiday booklet about country linked to international week     Writing to entertain- poetrycinquain     Writing to entertain: suspense story  Ancient Egypt		
Maths  Press play Decimals, Fractions, Mental Maths	Place Value Represent numbers within a million (read and write) Compare numbers within a million Count in 10s, 100s, 1,000s, 10,000s and 100,000s  Addition and Subtraction Add numbers up to and above 4 digits Round to check answers Missing numbers	Multiplication, Division, Understand prime numbers, square and cube numbers Multiples and factors Multiply by 10, 100, 1000 Divide by 10, 100, 1000  Fractions Find equivalent fractions Convert fractions Compare fractions Add fractions Subtract fractions Rounding numbers to 1,000,000	Multiply multi digit sums (4 digit by 2 digit, 3 digit by 2 digit)  Divide with remainders Understand equivalent fractions Covert mixed numbers to improper fractions and vice versa Compare and order fractions less than 1		Decimals Add and subtract decimal numbers Add and subtract wholes and decimals Multiply decimals by 10, 100, 1000 Divide decimals by 10, 100, 1000 Geometry: Shape Measure angles using protractors Calculate angles (straight line and point) Calculate lengths and angles in shapes	Geometry Translate shapes (and with coordinates) Understand reflection (with coordinates) Understand km, kg, mm, ml Understand metric and imperial units Convert units of time Interpret timetables Compare and estimate volume Estimate capacity		
Science Investigations	Focus – Earth and Space Describe the Sun, Moon and	Focus – Earth and Space  use test results to make predictions to set up	Focus - Properties and materials  Compare and group together materials everyday	Focus - Properties and materials  Compare and group together materials everyday materials on the	Focus – Forces (levers and pulleys) Recognise that some mechanisms	Focus - Animals including humans:  • Identify and name a variety of common animals that are carnivores, herbivores, and		
Living things and their habitats  Animals including	Earth as approximately spherical bodies  Galileo and Copernicus — geocentric and heliocentric  Describe the movement of	further comparative and fair tests  take measurements, using a range	materials on the basis of their properties, including their hardness, solubility, transparency, conductivity	basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal) and response to magnets.	including levers, pulleys and gears allow a smaller force to have a greater effect	Omnivores     Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds, and mammals,		
humans	the Earth and other planets relative to the solar system	of scientific equipment, with increasing accuracy and	(electrical and thermal) and response to magnets.	Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including	- what is the best solution to mummify apples/ how	including pets)  Living things and their habitats:		

## Properties and changes in materials

 Describe the movement of the moon relative to the Earth- oreo moons? Or Jaffa cakes

Science: Earth and Space

Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky – shadow experiment

Time zones

## **Forces**

Identify the effects of air resistance that act between moving surfaces.-investigation

Forces and magnets:

 Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling

## Earth and Space

use test results to make predictions to set up further comparative and fair tests record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs



precision, taking repeat readings when appropriate
• record data and

- record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- identify scientific evidence that has been used to support or refute ideas or arguments

-Identify the effects friction, that act between moving surfaces.-

record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs

- Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.
- Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through One Boy's War filtering, sieving and evaporating
- Demonstrate that dissolving, mixing and changes of state are reversible changes
- Explain that some changes result in the formation of new materials , and that this kind of change is not usually reversible, including changes associated with urning and the action of acid on bicarbonate of soda.
- use test results to make predictions to set up further comparative and fair tests
- take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- identify scientific evidence that has been used to support or refute ideas or arguments,

now press play Materials and Changings States

- through filtering, sieving and evaporating
- Explain that some changes result in the formation of new materials , and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. Give reasons, based on evidence from comparative and fair tests, for the uses of everyday materials, including metals, wood, and plastic
- did the Egyptians mummify bodies?
- Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with turning and the action of acid on bicarbonate of soda.
- Describe the changes as humans develop to old age
- Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense

- Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- Describe the life process of reproduction in some plants and animals



		Artist – Vincent Van	Auto D. /Ti	A - 4 - 4 - O - T - 1 D - T - T 11 1 1	Architects: The	Designer: Angie Lewin
	Art		Artist: Peter Thorpe	Artists: Ozamu Tezuka, Rumiko Takhashi		Designer. Angle Lewin
	<ul><li>Drawing</li></ul>	Gogh Media – paint, oil			Egyptians	Media: Paint Printing on poster board
	_	pastels	Media: Collage: layering	Media: Paper, Drawing	Canopic Jars	Media. I aint I inting on poster board
-		Focus: Impressionism	textures	1 / 0		Focus:
	Sculpture	Painting: stippling,		Earner Orienni	Media Sculpture- clay	To know who the artist is and that they
		blending paints to create	Painting: applying with a	Focus: Origami	,	celebrate the UK's flora and fauna
-	- D : .:	an atmosphere, Oil	variety of implements to		Focus To learn how to	celebrate the OK's nora and rauna
	<ul><li>Painting</li></ul>	pastels: shadows, creating	create different effects	To know how to precisely fold paper and create sculptures	manipulate clay	To know about several different styles of
		•	chalk pastels: blending	1 7 1 1	mampulate clay	printing and where these prints were most
		texture	criaik pasters. Dicriding		W 1 1 1	popular: e.g., wood block printing: Japan
				To understand how Manga artists create their characters and	To understand the	popular. e.g., wood block priliting. Japan
		To know that the artist is	Focus: Abstract	to produce a piece of art drawn in the Manga style	importance of canopic	To design our prints and sketch our ideas
		still an inspiration and	Expressionism		jars in Egyptian culture	To design our prints and sketch our ideas
		how they inspired others	1		and their importance in	To review and evaluate the use of space and
		and contributed to the	T 1 1 D		us helping to discover	shape, and the level of detail needed in
		impressionism movement.	To know how Peter		more about them.	printing designs
		To understand	Thorpe has contributed			printing designs
		10 dilderstand	to Abstract		Architects:	To use printing to create own imaginative
		To understand what	expressionism.		To understand the	design inspired by Lewin
			To understand:			design hispited by Lewin
		impressionism is, how it			canopic jars were stored	To use printing to create designs with distinct
		was created.	what abstract		in tombs, in Great	shapes
		<ul> <li>Looking at different</li> </ul>	expressionism is, how it		Pyramids, which the	
		impressionist	was established and		Egyptians designed, and	
		paintings, different	other artists in this style.		that these have	
		paintings by Van	Other artists in this style.		withstood the test of	
		Gogh and discussing			time	
		how we know these	Sketching our designs,			
		are impressionsim	and using methods to		To understand why	
		- Extension task on	create texture and		canopic jars were used	
			shading			
		how we know Van			and what they	
		Gogh is still an	To review and evaluate		represented in Egyptian	
		inspiration today, and	the effectiveness of their		culture	
		who he inspired	sketches and make			
			improvements			
		To critique a historical	improvements		To manipulate clay and a	
		artist			range of tools creatively	
		- Critiquing Van	To use a range of artistic		to make a canopic jar	
		Gogh's work	painting tools to create		to mane a carropre jar	
		Gogii s work	different paint effects		To dovolon control over	
		To ovalous here the con-	partition of the same of the s		To develop control over	
		To explore how the use of			the size and position of	
		complementary and			their sculptures, such as	
		analogous colours to			the creature's features,	
		create different effects and			and the lid of the jar, and	
		moods			ensure that it is	
		<ul> <li>Mixing colours to</li> </ul>			proportionate	
		create analogous				
		colours, and				
		explaining how these				
		put together on a				
		canvas create an				
		impression of the sky				
		Learn about great artists,				
		architects and designers in				
		history: Van Gogh				
_		70				

Improve their mastery of art and design techniques: drawing and collage Create sketchbooks to record their observations and use them review and revisit ideas  Computing  Compare a range of online	Enter formulae	Can understand and apply the	Compare techniques used	Create a multimedia on-	Enter formulae into a spreadsheet to solve
sites for doing Internet research on- Katherine Johnson research  • Cross-reference search results to help validate information on thembiography- information on Katherine Johnson.  E Safety  • Understand the term 'digital footprint' and describe strategies for reducing it.  • Know how to stay safe when watching and recording videos online  Online Safety	into a spreadsheet to solve calculations and model scenarios, including using =SUM() and statistical functions.  • Change the format of cells of cells using: text alignment, borders and data types.  • Children develop the excel spreadsheet skills to record a data handling project- recording the movements of the sun.	fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation  To use condition start-action in code  To use condition switches between actions in code  Start to use condition-starts-action in a loop code  Loops and conditionals in coding (lessons 6-15)  https://studio.code.org/s/express-2019	for manipulating and putting pressure on people online (e safety afternoon)  Understand how to safely send digital messages  https://microbit.org/lessons/musical-microbit-unit-overview/ Pupils compose musical phrases and write algorithms to play their phrases on pitched instruments (e.g. glockenspiels)  They then programme the micro:bit to play their phrases when events are triggered and experiment with using the accelerometer. Finally, they consider whether the micro:bit can be used as a music-making device, especially for those who might not have access to instruments.  Pupils learn to use the ifthen function and loop code instructions.	screen presentation over several slides, adding animation and transition effects to enhance it- for RE  Children design and make a multi-media presentation about a learning topic or them self-for RE  Compare ways for manipulating digital images to enhance them-Egyptian art where they took a photo of themselves (if time, if not carry over to term 6)  Create pictures using drawing tools (shapes)- could create hieroglyphs of their own? Or edit images in Egyptian art.	calculations and model scenarios, including using =SUM() and statistical functions.  Change the format of cells of cells using: text alignment, borders and data types  Children develop the excel spreadsheet skills to record a data handling project  Children design and make a multi-media presentation about a learning topic or them self- JP documentary/ Horrible histories on the Egyptians dt link:  https://microbit.org/lessons/dat a-handling-unit-summary/ Children write and evaluate algorithms and programs using selection and repetition to use micro:bit as a temperature recorder, an automatic warning system and a digital assistant. Lesson 3 especially as they have to create their own product- explain that they are going to design a gadget that can that either responds to changes in light level or temperature Could this be linked to climate change?

Design Technology levers, sliders, wheels and axles	Focus – Rocket for cardboard day  Evaluate –  Design and Make—  Rockets for cardboard box day  Create a rocket:  Design purposeful, function, appealing products for themselves and other users based on design criteria  Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and ,where appropriate, information and communication technology	Focus – Kintsugi Evaluate – Design and Make–  Kintsugi is the Japanese art of putting broken pottery pieces back together with gold — built on the idea that in embracing flaws and imperfections, you can create an even stronger, more beautiful piece of art.  Children will decorate a plate that they will then break and repair in the style of Kintsugi		Focus – Shadufs Evaluate – Design and Make— Design purposeful, function, appealing products for themselves and other users based on design criteria Generate, develop, model and communicate their ideas through talking, drawing, templates, mockOups and ,where appropriate, information and communication technology Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] Select from and use a wide range of materials and components, including, construction materials, textiles and ingredients, according to their characteristics Investigate and analyse a range of existing products (look at different pulley systems and old Egyptians systems?) Evaluate their ideas and products against their own design criteria and consider the views of others to improve work Understand how key events and individuals in design and technology have helped shape the world- Understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages) Apply their understanding of how to strengthen, stiffen and reinforce more complex structures  Microbit programming DT-see computing curriculum plan above in this term.
Cooking and Nutrition		Japanese bento boxes, designing a bento box and then creating it in class.	Cook a meal- using ancient Egyptian recipe- 'prepare and cook a variety of predominately savoury	pian above in this term.

					dishes using a range of cooking recipes'	
Geography Maps and Atlases Locational knowledge The world's seven continents and five oceans name, locate and identify characteristic s of the four countries and capital cities of the United Kingdom and its surrounding seas Place knowledge Human and physical geography	Focus — Where in Bracknell should we build a space shuttle launchpad?  Climates zones, biomes- choose a couple, Vegetation belts (specific plants within those biomes): a biome is a climate zone and everything that lives in it.  Use maps/globe/atlases to locate continents and countries. Use 8 point compass, 4 figure grid references, symbols and keys (can link to PE for compass points etc and symbols via orienteering- may just want 4 compass points initially) Significance of GMT- link to space and the time zones Identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer, and Capricorn, Artic and Antarctic circle- link to biomes and equator and heat.  Fieldwork of local area surrounding school Including sketches, maps, plans, graphs and digital technology.	Focus —  Where in Bracknell should we build a space shuttle launchpad?  Climates zones, biomes- choose a couple, Vegetation belts (specific plants within those biomes) build up over the year about biomes. remember: a biome is a climate zone and everything that lives in it.  Use maps/globe/atlases to locate continents and countries.  Use 8 point compass, 4 figure grid references, symbols and keys (PE links and orienteering and Space investigations)  Significance of GMT-link to space and the time zones  Identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Bouthern Hemisphere, the Tropics of Cancer, and Capricorn, Artic and Antarctic circle- link to biomes and equator and heat.  Fieldwork of local area surrounding school Including sketches, maps, plans, graphs and digital technology.	Focus – Name, locate, identify Main cities in England and the UK Use maps/globe/atlases to locate continents and countries.	Focus – Name, locate, identify Continents, main countries including N and S America, some key states of America and their features.  Use maps/globe/atlases to locate continents and countries.	Focus –  Describe and understand: Climates zones, biomes and vegetation belts,  Understand how humans affect the Earth over time. Why and how do people seek to sustain their environment?  Climate Change	Focus –  Describe and understand: Coasts, erosion and deposition  Use maps/globe/atlases to locate continents and countries
History Skills  To use primary resources to make explanations about the past  Changes within living memory.  Events beyond living memory  Lives of significant	Focus — To know when, why and how the Space Race began and who was involved.  Look at the representation and importance of women in the space race and how their roles progressed- Hidden figures- and how this affected women's roles in this industry.  To describe the key events in the space race (eBooks created on each key event by groups of chn)  To ask and answer historical questions about the Space Race and key events.  To know and correctly use the terms used to describe the Space Race: Satellites, orbit, NACA, NASA, ISS, Hubble Space Telescope, Soviet Union (and how Russia has changed names etc)  Why the space race was important and what they believe to be the most important event in the Space Race, and why.  To examine a range of historically significant sources of evidence of key events of the Space Race and the validity of the evidence: e.g. videos of Neil Armstrong in space, photos from the satellites,		Focus – To understand the history of man Look at the ruling dynasties of Ja of their civilization To consider what Japan has conti To consider Japan against other hand Roman and compare and con To investigate the origins of Nint of gaming and anime on our work	pan and understand the history ributed to the wider world.  nistorical empires such as Greek ntrast the cultures tendo and consider the impact	noting other significant glater the significance of Howar on our knowledge and uncivilisation  To examine key events duperiod- such as King Tut's these happened  To ask and answer complete.	Egypt in time and place and obal civilisations of the era a relics were discovered and d Carter and Joanne Fletcher derstanding of the Egyptian ring the ancient Egyptian is reign, Cleopatra and when ex questions regarding the ications for tomb excavation g such actions and the

Significant historical events, people and places in their own locality	newspaper reports etc. are reliable.  Mission to	-	d secondary sources and how these			To explore a variety of ancient Egyptian artefacts and explain what they can tell us about everyday life in ancient Egypt- discuss how some Tombs have hieroglyphs scratched off- so they cannot be remembered.  To know and correctly use the terms used to describe ancient Egyptian life: Sarcophagus, mummification, tombs, pyramids, shaduf, relics, hieroglyphs, high priest/ess, canopic jars  To explain whether it should be legal or illegal to excavate tombs and the scientific and emotional / historical developments that arise from this.		
Languages Language Angels - Spanish	Me Presento (presenting myself)	Regula	ar verbs	Irregular verbs	Greetings	Colours and Numbers	I can	
PE	Jasmine Personal  Exceeding I recognise my stra and weaknesses are set myself appropriates. I see all new challed opportunities to led develop.  Expected I can cope well ampositively when the become difficult. I can persevere with task and improve apperformance throus regular practice.  Emerging I know where I ammy learning and I begun to challenge myself.	ad can riate enges as arn and d react ings th a my agh	Exceeding I can negotiate and collaborate appropriately. I can give and receive sensitive feedback to improve myself and others. Expected I help organise roles and responsibilities and can guide a small group through a task. I cooperate well with others and give helpful feedback. Emerging I am happy to show and tell others about my ideas. I show patience and support others.	Exceeding I can develop methods to outwit opponents. I can and suggest patterns of play which will increase chances of success.  Expected I can use awareness of space/others to make good decisions. I can understand ways (criteria) to judge performance.  Emerging I can understand the simple tactics of attacking and defending. I can explain what I am doing well and I have begun to identify areas for improvement.	Exceeding I can adapt and adjust my skills, movements or tactics so they are different to others. I can respond imaginatively to different situations.  Expected I can change tactics, rules or tasks to make activities more fun or more challenging. I can link actions and develop sequences of movements that express my own ideas.  Emerging I can recognise similarities and differences in movements and expression. I can make up my own rules and versions of activities.	Exceeding I can perform a range of skills fluently and accurately. I can use combinations of skills confidently in specific contexts.  Expected I can link actions together so that they flow. I can perform a variety of movements and skills with good body tension.  Emerging I can select and apply a range of skills with good control and consistency. I can perform and repeat sequences with clear shapes and controlled movement.	Jasmine Health and Fitness  Exceeding I can identify possible dangers when planning an activity. Expected I can self select and perform appropriate warm- up and cool down activities. I can record and monitor how hard I am working. I can explain how often and how long I should exercise to be healthy. I can describe the basic fitness components. I can explain why we need to warm-up and cool down. Emerging I can describe how and why my body changes during and after exercise.	
PSHE	- To underst list the attributes of a friend - To identify qualities of a good frie	good the	- To know where to turn in times of unhappiness or when witnessing something you are unsure about	- To explain what makes up a healthy meal - To explain the importance of nutrients and fibre	- To understand the benefits of a growth mindset and explain how we can further develop growth mindsets	- To explain how to keep safe online - To identify what we would do if we were	- To explain what migration is - To explain why people might need to migrate	

	- To consider the rights and responsibilities we have in friendships - To explain what peer pressure is and know ways to challenge it - To explain the possible repercussions of feeling excluded  Feelings	- To explain what makes a situation fair or unfair - To explain what it means to belong and explain why belonging is important - To identify places we feel we belong - To explore gender stereotypes - To explain why it is important to challenge gender stereotypes	- To explain the importance of hydration - To explain the importance of portion control - To interpret and understand the information on food labels - To know that legal and illegal drugs exist - To be aware of the risks associated with drug misuse		worried or scared about something online  To explain what charity is and explain why people donate to charities  To fundraise for a charity  To understand deductions that are taken from payslips  To explain what budgeting is and why it is important  Tow  Press  Online Safety	- To explain how to keep safe when cycling - To explain the risks associated with cycling and recognise ways to minimise these risks - To set own short and long term goals - To consider the emotional and physical changes occurring during puberty - To explore male and female changes in more detail - To consider the impact of puberty on the body and understand the importance of physical hygiene
RE	How far would a Sikh go for his/her religion?  Diwali  Tow press play  Diwali	Is the Christmas Story True? Do sacred texts have to be 'true' to help people understand their religion?	How can Brahman be everywhere and in everything? • Can arts help communicate religious beliefs??	Did God intend Jesus to be crucified and if so was Jesus aware of this?	What is the best way for a Sikh to show commitment to God?	What is the best way for a Christian to show commitment to God?
Music Singing songs and speaking chants and rhymes play tuned and untuned instruments musically Iisten with concentration and understandin g to a range of high-quality live and recorded music experiment with, create, select and combine sounds using the interrelated	Charanga Livin on a prayer  To identify and move to the pulse with ease.  To think about the message of songs.  To compare two songs in the same style, talking about what stands out musically in each of them, their similarities and differences.  Listen carefully and respectfully to other people's thoughts about the music.  When you talk try to use musical words.  To talk about the musical dimensions working together in the Unit songs.  Talk about the music and how it makes you	Classroom Jazz 1 To know five songs from memory, who sang or wrote them, when they were written and, if possible, why?  • To know the style of the five songs and to name other songs from the Units in those styles.  • To choose two or three other songs and be able to talk about:  • Some of the style indicators of the songs (musical characteristics that give the songs their style)  • The lyrics: what the songs are about  • Any musical dimensions featured in the songs and where they are used (texture, dynamics, tempo, rhythm and pitch)	Steel pan drums	Steel pan drums	Sing Up – Creating a beat and a rhythm	Sing Up – What will we do with the drunken sailor?

dimensions of	feel.	• Identify the main sections		
music		of the songs (intro, verse,		
	To know five songs	chorus		
	from memory, who sang	etc.)		
	or wrote them, when they	Name some of the		
	were written and, if	instruments they heard in		
	possible, why?	the songs		
	To know the style of	• The historical context of		
	the five songs and to	the songs. What else was		
	name other songs from	going on at		
	the	this time?		
	Units in those styles.			
	• To choose two or three	To identify and move to the		
	other songs and be able	pulse with ease.		
	to talk about:	To think about the		
	○ Some of the style	message of songs.		
	indicators of the songs	• To compare two songs in		
	(musical	the same style, talking about		
	characteristics that give	what stands		
	the songs their style)	out musically in each of		
	• The lyrics: what the	them, their similarities and		
	songs are about	differences.		
	Any musical	Listen carefully and		
	dimensions featured in	respectfully to other		
	the songs and where they	people's thoughts about the		
	are used (texture,	music.		
	dynamics, tempo, rhythm	• When you talk try to use		
	and pitch)	musical words.		
	o Identify the main	• To talk about the musical		
	sections of the songs	dimensions working		
	(intro, verse, chorus	together in the Unit		
	etc.)  O Name some of the	<ul><li> songs.</li><li> Talk about the music and</li></ul>		
	instruments they heard in the songs	how it makes you feel.		
	• The historical context			
	of the songs. What else			
	was going on at			
	this time?			
	tins time:			