


		Science and Technology		
		Knowledge	Skills	Experiences
Year 3/4 - Discoverers	Summer	Properties of Materials.	I can explore and describe the properties of materials and justify their uses.	Understand terms then test samples. Give scenario sheet for them to apply their knowledge to real life situations.
		Conductors and insulators of heat.	I can explore how different components work well together.	(Demo material rods and boiling water then conduction crown.) Research how insulated flasks work.
			I can produce designs to communicate my ideas in response to particular contexts. I can recognise patterns from my observations. I can communicate my findings. I can make design decisions, using my knowledge of materials and existing products, and suggest design improvements.	Design their own flask. Test flask with iced water taking temp readings at agreed intervals. Discuss changes they would make to their design.
		Conductors and insulators of electricity.	I can use my knowledge and understanding to predict effects as part of my scientific exploration.	Test a range of materials using an electric circuit.
		Magnetic materials. (Not attracting / repelling of two magnets as covered in Y5/6)	I can explore and communicate the basic properties of magnetism.	Test a range of materials using a magnet. Strongest magnet investigation.

Overmonnow Curriculum Overviews

	Spring	<p>Friction and air resistance.</p> <p>Healthy living – alcohol, cigarettes and drugs effect on the body.</p>	<p>I can communicate the effects forces have on myself and on objects.</p> <p>I can safely use a range of tools, materials and equipment to construct for a variety of reasons.</p> <p>I can identify things in the environment which may be harmful and can act to reduce the risks to myself and others.</p>	<p>Air power buggy investigation.</p> <p>Cross over with Jigsaw.</p>
	Autumn	<p>Structures and forces. Gravity. Buildings – bridges, towers, earthquake proofing... Materials and their uses.</p>	<p>I can communicate my design ideas before making.</p> <p>I can ask questions and use my experience to suggest simple methods of enquiry.</p> <p>I can apply standard units in practical situations (height).</p> <p>I can collect data and communicate my findings.</p> <p>I can identify trends, patterns and relationships to draw conclusions.</p> <p>I can collect and organise data for posing and answering questions.</p>	<p>Research designs that strengthen buildings.</p> <p>Tallest tower investigation.</p> <p>Strongest bridge investigation.</p>

	Language, Literacy and Communication		
	Knowledge	Skills	Experiences

Year 3/4 - Discoverers	Summer	<ul style="list-style-type: none"> Folk tales Explanation texts Poetry Non-chronological reports Prepositions and paragraphs Prefixes 	<p>I can recognise that there is a relationship between languages, culture and my own sense of Welsh identity.</p> <p>I can write using an increasingly imaginative, varied and precise vocabulary.</p> <p>I can listen to and remember poetry, drama and prose.</p> <p>I can retell stories creatively.</p>	<ul style="list-style-type: none"> The Welsh Atlantis folk tale – related to topic of Lost Lands Barry Island Forest School sessions with Mrs Crossley Information leaflet about Lost Lands
	Spring	<ul style="list-style-type: none"> A story with a familiar setting Information texts Playscripts Discussion texts Adverbs of time Adverbs and adverbials of time 	<p>I can listen to others and understand that they may have a different perspective from my own.</p> <p>I can find and use information from different materials that I read.</p> <p>I can understand information about a variety of topics, identifying main points.</p> <p>I can read aloud with expression, paying attention to punctuation.</p> <p>I can adopt a range of roles and manage my contributions appropriately.</p>	<ul style="list-style-type: none"> Draw a familiar place to the children Act out the playscript Jack and the Beanstalk in small groups Peer assess and evaluate performances Research an animal of interest using iPads and Chromebooks Debate in class using for and against

	Autumn	<ul style="list-style-type: none"> Science fiction/Fantasy Mystery Instructional texts Autobiographies and biographies How to use a thesaurus and dictionary using the alphabet Adverbs and word families Sentences Perfect tense Determiners with a and an Conjunctions Adverbs and Adverbials 	<p>I can write using an increasingly imaginative, varied and precise vocabulary.</p> <p>I can talk to plan writing and write for different purposes and audiences.</p> <p>I can recognise the features of different types of texts and use appropriate language to talk about them.</p> <p>I can organise my writing into a logical sequence.</p> <p>I can use my imagination to respond to and adapt literature to create my own work.</p>	<ul style="list-style-type: none"> Reading passages as a whole class Used a story map to plan a story Created a new land for a fantasy story Use a thesaurus to find exciting vocabulary Trashed classroom by the class elf to create a mystery story Ask parents about their own life growing up, collect pictures to bring in for autobiographies


		Mathematics and Numeracy		
		Knowledge	Skills	Experiences
Year 3/4 - Discoverers	Summer	Consolidate all knowledge and skills already learnt.		
		Know the place value of 4 digit numbers and decimals.	Use PV boards to partition	Jubilee Maths Mystery. Sugar in drinks – Healthy living week.
		Use if I know then I know...	Learn that if $3 + 7 = 10$, then $30 + 70 = 100$, if $6 \times 4 = 24$, then $60 \times 4 = 240$	
		Double and halve 3 digit numbers	Use diamonds to partition and recombine.	Jubilee Maths Mystery.
		Solve multiplication & division problems	Use diamonds, tables, grids	
		Understand that a negative number is below zero. Know PV associated with negative numbers.	Use number lines, calculate differences by counting, order negative numbers	
		Multiply a single digit number by 20	Use 2 step operation - double then multiply by 10	
		Looking at patterns.		

			<p>I have explored patterns of number and shape. I can recognise, copy and generate sequences of numbers and visual patterns.</p>	<p>*Using blocks, shapes to make reoccurring patterns. *Finding the missing numbers in a sequence. *Function machine – finding the rule computer programme. *Egyptian rope challenge.</p>
	Spring	<p>Understand and calculate with money to £10</p> <p>Use knowledge of place value to multiply and divide by 10</p> <p>Know complements of 100 and £10 in relation to multiples of 10 and 5</p> <p>Know/calculate halves and doubles</p> <p>Find simple fractional quantities related to multiplication facts.</p> <p>Add and subtract 2-digit numbers</p> <p>Find the difference within 100</p> <p>Multiply a teens number by 2,3,4 or 5</p> <p>Order and compare items up to £10</p> <p>Check own work</p>	<p>Position and compare on a bead bar, order.</p> <p>Know that we move the digits one column to the left or right, put a 0 in the units column if necessary.</p> <p>Use the magic stick and number lines to calculate complements.</p> <p>Derive 4 x table by doubling 2s</p> <p>Use tables and magic squares to find $\frac{1}{3}$ of 15 etc.</p> <p>Use expanded vertical methods</p> <p>Use number lines, counting on or counting back</p> <p>Use the grid method of multiplication</p> <p>Compare values on a bead bar or number line. Calculate the difference by counting on.</p> <p>Use the inverse operation.</p>	<p>Jack and the Beanstalk story maths. Money bags challenge.</p> <p>Act it out.</p> <p>Hop to it exercise.</p> <p>Easter Mystery.</p>

		<p>To plot and find co-ordinates.</p>	<p>I have developed an understanding of why we need co-ordinates. I can use them to locate and plot points in the first quadrant.</p>	<p>Battle ships games. Picture making using co-ordinates to colour. Map work – Atlas work during skills & You choose activities.</p>
		<p>To interpret data. Bar graphs / pie charts.</p>	<p>I can interpret and analyse graphs, charts and data.</p>	<p>Gather data – favourite chocolate bar in class – use to ask and answer qus.</p>
		<p>To use technology to draw graphs – chromebooks.</p>	<p>I have used digital methods to record and present data.</p>	<p>Skills shown using Docs / Sheets on Chromebooks. Used to display data from Outdoor learning – Best nest experiment.</p>
		<p>To understand + / - readings on a thermometer.</p>	<p>I can use a variety of measuring devices – thermometers.</p>	<p>Hands on experience of using a range of thermometers – forehead, electronic, alcohol. Taking temp of hot water as it cools. Finding temps of diff countries and placing them on a thermometer.</p>
		<p>To read time using analogue and digital devices.</p>	<p>I can tell the time on an analogue clock (at least 15 min intervals) and I can connect this to time displayed digitally.</p>	<p>Lots of prac with clocks. Duration qus – secs, mins, hours, days, months, years. Time reasoning qus.</p>
		<p>To make a box.</p>	<p>I have explored 2D and 3D shapes and their properties in a range of contexts.</p>	<p>Undoing boxes & looking at their nets inc tabs. Easter egg box making challenge. (Good accurate measure check too.)</p>

Autumn	Understand place value in 3 digit numbers	Read, write, order, compare. Count in 10s and 100s from any 3-digit number	
	Know / be able to derive multiplication tables.	Know 2,5,10 x tables. Work out 3s	
	Know/calculate halves and doubles	Know doubles of numbers to 20, halves of even numbers to 20, multiples of 10 to 100 . Halve 2 digit numbers using diamonds, know quarter is half of a half. Double multiples of 5 to 100, use doubling diamonds	Finding the perimeters of simple shapes.
	(Understand perimeter.)	Round to the nearest 10 Partition, add and recombine	
	Estimate answers		
	Estimate size using non standard units.	I have estimated and measured length in practical situations using non-standard units.	Hoola hoop investigation. How many hoola hoops to get to the sun, height of door etc...
	To use standard units to estimate and measure length.	I have estimated and measured length.	Measuring a range of objects to the nearest 1/2 cm (Y3), mm (Y4).
	Add & subtract 2-digit numbers		
	Understand and calculate with money	Know relationship between p and £, use appropriate notation. Order amounts of money, round to the nearest 10p and £	
	Select coins to pay for items up to £2. Calculate change	Use number lines and counting on.	
	Real life money situations.	I can make sensible financial transactions. I can explain that money and ways to save and pay come in different forms. I can sort and classify using more than one criterion,	Real life money tasks to complete using research: Party planning. Looking at Banks / accounts etc.
	To sort data using a Venn &		

		<p>Carrol diagram.</p> <p>2D and 3D shapes.</p> <p>To gather data using a tally chart and display in a Bar graph.</p> <p>To use compass points.</p>	<p>including the use of Venn diagrams and Carroll diagrams.</p> <p>I have explored and named 3D shapes. I can make models of 3D objects.</p> <p>I have used non digital methods to record and present data – tally & bar charts.</p> <p>I have described and quantified the position of objects relative to other objects. I can follow and create instructions related to movement.</p>	<p>Sorted shapes and in You choose time sorted housing data.</p> <p>Make snowman shapes after predicting end shape.</p> <p>Smarties in a pack investigation. Favourite sculpture (Art Week).</p> <p>Using compasses in the yard to follow partners routes and make up own routes. (4 points-Y3, 12 points –Y4.)</p>
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		<i>Expressive Arts</i>		
		<i>Knowledge</i>	<i>Skills</i>	<i>Experiences</i>
		<p>Explored artefacts from ancient civilisations.</p> <p>Learned about the materials used to make them and their significance.</p> <p>Understand that language has evolved over time from pictures/symbols to words.</p>	<p>I can explore and experiment with and then select appropriate creative techniques, practices, materials, processes, resources, tools and technologies.</p> <p>I can use creative materials safely and with some control under supervision.</p>	<p>Egyptian Pharoah Masks using paper.</p> <p>Egyptian scarabs from clay</p> <p>Mayan Masks,</p> <p>Inca/Mayan/Aztec Music.</p> <p>Sketches and drawings of clothing</p>
	Year 3/4 - Discoverers Summer			

Overmonnow Curriculum Overviews

	Spring	<p>Researched how they are made. Which materials were used, planning our designs, and using rotation skills learnt in Maths.</p>	<p>I can compare my own creative work to creative work by other people and from other places and times.</p>	<p>Creating a Rangoli pattern and or Moroccan Plates using symmetry.</p>
	Autumn	<p>We learnt about Antony Gormley and his work.</p> <p>We created diagrams of our intended models.</p> <p>We reflected on our work</p>	<p>I can explore and describe how artists and creative work communicate mood, feelings and ideas.</p> <p>I can give and accept feedback as both artist and audience.</p>	<p>Antony Gormley – sculptures and installations. We created our own sculptures from wood, pipe cleaners and wire.</p>

	Humanities		
	Knowledge	Skills	Experiences

Year 3/4 - Discoverers	Summer	<p>Ancient Egyptians</p> <p>Ancient Mayans</p> <p>Lost City of Atlantis</p> <p>Cantre'r Gwaelod</p>	<p>Write and draw numbers in Egyptian and Mayan hieroglyphs.</p> <p>Independent research skills</p>	<p>Visit to Barry beach making sandcastles and watching them wash away.</p> <p>Making Mayan Masks</p> <p>Writing using Hieroglyphs.</p>
	Spring	<p>The continents.</p> <p>Religions around the world.</p> <p>Flags from around the world.</p> <p>Landscape and geographical features.</p>	<p>Atlas reading skills</p> <p>Researching how people celebrate festivals</p> <p>Comparison Tables</p> <p>Create a quiz</p> <p>Research facts about largest mountain/longest river etc</p>	<p>Using google maps to find locations.</p> <p>Watch clips about Holi festival around the world.</p> <p>Find flags and colour flag sheet.</p> <p>African Experience Day</p>
	Autumn	<p>How houses have changed over time.</p> <p>What materials have been used to build houses.</p> <p>Location can change what materials we use to build.</p> <p>The Seven Wonders of the World.</p> <p>Bridges in Monmouth</p>	<p>Create a timeline</p> <p>Create mind maps</p> <p>Use ICT skills to research.</p> <p>Create fact files</p> <p>Create Surveys</p>	<p>Make or draw a house</p> <p>Trip to St Fagans (cancelled due to Covid)</p>



		Knowledge	Skills	Experiences
Year 3/4 - discoverers	Summer	Unit 5 Relationships Unit 6 Changing Me Working as a team Working with a partner	Understanding healthy relationships. Understanding changes in my body and family	Healthy Living week PANTS activity Golf Sessions- External provider
	Spring	Unit 2 Dreams and Goals Unit 3 Healthy Me PE Units: Dance Hockey	Target /goal setting Making good and healthy choices. Balance shape and form Passing and ball control	Making Downs Syndrome class video. Sign language whole school song You've got a friend in me.
	Autumn	Unit 1 Being me in my world Unit 2 Celebrating Difference. PE: Team Games Circuit Training Compass For Life- Deciding your super north star.	Ball skills Working in partners Listening and discussion skills. Ball passing kicking and throwing. Ball control, stopping the ball. Target setting skills	Voting for Pupil council PE activities Anti Bullying week poster Children in Need- dressing up to raise awareness. Photograph display, sharing ideas of future jobs.