

Year 5 Curriculum Map

SUGGESTED PROJECTS				
HOLA MEXICO		TOP SECRET		
MYSTERIOUS MAYANS BA		TLE FROM THE AIR		
OUT OF THIS WOF	RLD	CIRCLE OF LIFE		
Science Forces Living Things & Their Habitats Animals & Humans Properties & Changes of Materials Earth & Space Significant Scientists David Attenborough (Living things)	RSE Families Friendships Respectful Relationships Staying Safe Mental Wellbeing Drugs, Alcohol, Tobacco Health and Prevention Basic First Aid	Geography Locational Knowledge World Countries (North America) Place Knowledge North America (Mexico) Human & Physical Geography Distribution of natural resources (energy, food, minerals and water) biomes, climate and trade Geographical Skills & Fieldwork Maps, atlases and globes, four and six figure		
Jane Goodall (Living things) Mae Jemison (Earth and Space) Zhang Heng (Earth and Space) PE	Online Safety Physical Fitness Healthy Eating Online Relationships <u>History</u>	grid references (Ordnance Survey maps)		
Invasion Games Net and Wall Games Striking and Fielding Swimming Dance Gymnastics Athletics Outdoor and Adventurous Challenges	WW2: A study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066 - significant turning points in British history A non-European society that provides contrast with British history – Mayans A local history study – how WW2 affected Horncastle	E-Safety Shaping the Digital World Communicating in the Digital World Exploring the Digital World		
Art Drawing Painting Collage Textiles Artist focus	Languages T1: On Holiday T2: Eating Out T3: Hobbies T4: A school Trip T5: Seasons T6: The Environment	MusicPlanets (Music express. Focus= listening. Links to Romantic composers e.g. Holst)Life cycles (Music express. Focus = structure. Brahms, Berio, Liszt and Monteverdi. Keeping healthy (Music Express. Focus = beat)DiverstyAt the Movies (Music Express. Focus= composing Joe Hisaishi)		
Design & Technology Textiles Construction Materials Food & Nutrition	RE Being Human – Hinduism believing Being Human – Islam believing Being Human – Christianity believing In depth study of Sikhism.	PSHE Being Me in My World Celebrating Difference Dreams and Goals Relationships Healthy Me Changing Me		

The focus areas for each subject are recorded on this page so coverage is clear and these should be linked to projects. Maths and English focus areas are recorded in the map; however every objective is not recorded in this overview since they are too numerous and are therefore detailed in medium and short term planning for these subjects.

YEAR 5 CURRICULUM SUBJECT SKILLS MAP

Our curriculum responds to the needs and experiences of our children through challenging, inspiring and engaging them with what matters, and most importantly, it prepares children for the future.

COMMUNITY

(our school, local and wider global communities and global dimensions)

CREATIVE THINKING

(encouraging inquisitiveness, problem solving, reasoning and enquiry based learning)

CONFIDENT & RESILIENT LEARNERS

(a focus on children's self-esteem, well-being and developing a growth mind-set)

English

See English Subject Progression for more details

Maths

Maths	
Number	Measurement
Counting	Use and Apply measures to increasingly complex contexts
Place Value	Problem solving in all four operations involving money and time
Addition and Subtraction (mental methods)	Perimeter and Area
Addition and Subtraction (formal written methods)	Recognise and estimate volume and capacity.
Use the inverse to check addition and subtraction calculations.	Geometry
Multiplication and Division (tables)	Describe position, direction and movement in increasingly precise ways – reflection and translation
Multiplication and Division (mental methods)	Use the properties of shapes and angles in increasingly complex and practical
Multiplication and Division (formal written methods)	contexts
Fractions	Statistics
Roman Numerals	Gather, Organise and Interrogate data
Use and apply measures to increasingly complex contexts – positive and negative integers	Solve comparison, sum and difference problems using information presented in a line graph.
Fractions, Decimals and Percentages	Complete, read and interpret information in tables, including timetables.
Science	
Working Scientifically	Biology
to consider how scientists have combined evidence from observation and measurement with creative thinking to suggest new ideas and explanations for phenomena	to describe the life cycles common to a variety of animals, including humans (birth, growth, development, reproduction, death), and to a variety of plants (growth, reproduction and death)
to make predictions of what will happen based on scientific knowledge and understanding, and suggest how to test these	to describe the life process of reproduction in some plants and animals to describe the changes as humans develop from birth to old age
to plan comparative and fair tests	Taken from RSE
to make relevant observations and measurements with increasing accuracy	Describe the different roles food can play in people's lives and can explain how
to record data and results using diagrams, classification keys, tables and bar and line graphs	people can develop eating problems (disorders) relating to body image pressures. Explain how they expect and value their body To identify the elements of a poor diet.
to recognise and make predictions from patterns in data and suggest explanations for these using scientific knowledge and understanding	To know the risks associated with unhealthy eating habits, including the importance of calories
to identify patterns in results and results that do not appear to fit the pattern	
to interpret data and decide whether it is sufficient to draw conclusions	
to draw conclusions indicating whether these match any prediction made	
Physics	Chemistry
to explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object	to compare and group together everyday materials based on evidence from comparative and fair tests, including their hardness, solubility, conductivity (electrical
to identify the effect of drag forces, such as air resistance, water resistance and friction that act between moving surfaces	and thermal), and response to magnets to understand how some materials will dissolve in liquid to form a solution
to describe, in terms of drag forces, why moving objects that are not driven tend to slow down	to use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating
to understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springs	to give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials
to observe the apparent movement of the Sun during the day and observe changes across the four seasons, how day length varies	to demonstrate that dissolving, mixing and changes of state are reversible changes
to describe the movement of the Earth relative to the Sun in the solar system	to 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,
to describe the movement of the Moon relative	oxidisation and the action of acid on bicarbonate of soda
to describe the Sun, Earth and Moon as approximately spherical bodies	
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to use the idea of the Earth's rotation to explain day and night	

The skills and knowledge for each subject for the whole year are listed on this year group curriculum map. The objectives chosen for each term, most of which will be taught through projects in a cross-curricular theme, are highlighted when they are covered. The subject progressions provide details of where support and extension can be provided for children where needed. Some skills will be an ongoing focus throughout the year.

to investigate the way that ideas of the solar system have developed, understanding hoe the geocentric model of the solar system gave way to the heliocentric model by considering the work of scientists such as Ptolemy, Alhazen and Copernicus

Autumn: Blue Spring: Pink Summer: Green Ongoing: Yellow

Computing	Design & Technology
Identify trusted adult	Create objects (such as a cushion) that employ a seam allowance.
Demonstrate safe practice when selecting images or content for uploading to an online space.	Join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration).
Create class rules	Use the qualities of materials to create suitable visual and tactile effects in
Understand the need for privacy settings on any social networking sites (and that	the decoration of textiles (such as a soft decoration for comfort on a cushion).
those privacy settings may not be observed by online 'friends' who can use/ share/download your images /content). C/C RSE	Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filling and sanding).
Enter labels and numbers into a spreadsheet. Enter formulae into a spreadsheet and modify the data, (simple calculations + - $x \div$). C/C Maths	Cut materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a more precise scissor cut after roughly cutting out a shape).
Identify and enter the correct formulae into cells, modify the data, make predictions of changes and test them. C/C Maths	Show an understanding of the qualities of materials to choose appropriate tools to cut and shape (such as the nature of fabric may require sharper scissors than would
Write control sequences which use outputs and inputs (using if then type commands) to control events in response to conditions. Use sub routines to decompose the problem into smaller parts (e.g. Use Flowol, CoCo 2, Junior Control Insight or Go software).	be used to cut paper). Choose from a wider range of materials and tools.against their own design criteria and consider the views of others to improve their work
Explain the logical steps of the flow diagram in the design process.	Understand the importance of correct storage and handling of ingredients (using knowledge of micro-organisms).
Develop and use criteria to evaluate the design and layout when evaluating a range of web sites, pages on VLE, online resources and presentations.	Measure accurately and calculate ratios of ingredients to scale up or down from a recipe.
Make effective use of transitions and animations in presentations. Consider the effect on the audience and the appropriateness of such devices.	Demonstrate a range of baking and cooking techniques.
Through peer and self-evaluation children evaluate their design and make improvements.	Create and refine recipes, including ingredients, methods, cooking times and temperatures.
Use and refine their skills while independently creating, sending and responding to emails, blogs and forums in VLE/social media.	Understand seasonality Combine elements of design from a range of inspirational designers throughout history, giving reasons for choices.
As a class or group make use of video technology to exchange ideas and collaborate on projects (e.g. Skype with webcams or Face Time with iPads).	Create innovative designs that improve upon existing products.
Enhance a presentation by acquiring, storing, and combining images from different sources.	Evaluate the design of products so as to suggest improvements to the user experience.
Make use of transitions and special effects in video editing software and understand the effect they have on the audience.	Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
Independently select and use a variety of appropriate devices to record sounds. Upload and download projects (e.g. Learning Platform).	Design with the user in mind, motivated by the service a product will offer (rather than simply for profit).
Create thei Use the pre-programming features of data logging software and devices to set up a specific data capture, perhaps overnight. C/C Science	Make products through stages of prototypes, making continual refinements.
Use graphical information to answer questions and solve simple problems. C/C Maths	Ensure products have a high quality finish, using art skills where appropriate.
Check for accuracy by checking data, using different views, search tools, and	Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.
graphing. Identify and correct inaccuracies. C/C Maths	
Select an appropriate search engine to find information related to their topic. Develop skills to question where web content might originate and understand that	
this gives clues to its authenticity/reliability (by looking at web address, author, linked pages etc.).r own sounds and compositions to add to their presentations/films/images/ photos.	
Use ICT to produce music for a specific purpose, considering the impact on the audience (e.g. length, style, genre etc.).	
Geography	Languages
Use different types of fieldwork sampling (random and systematic) to observe, measure and record the human and physical features in the local area. Record the	Learn and perform rhymes, poems and texts.
results in a range of ways.	Listen with care and show understanding by joining in and responding
Collect and analyse statistics and other information in order to draw clear conclusions about locations.	Prepare and practise a simple conversation, expressing opinions Focus on correct pronunciation
Analyse and give views on the effectiveness of different geographical	Speak in simple language and be understood
representations of a location (such as aerial images compared with maps and topological maps - as in London's Tube map).	Ask and answer questions
Describe geographical diversity across the world.	Use tone of voice and gesture to help convey meaning Listen attentively and understand more complex phrases and sentences
Understand some of the reasons for geographical similarities and differences between countries.	Prepare a short presentation on a topic through retaining and recalling phrases and
Describe and understand key aspects of:	sentences
 human geography, including: economic activity including trade links, and the distribution of natural resources including energy, food, minerals, and water supplies. 	Demonstrate a growing vocabulary Express personal responses and opinions e.g. using a variety of verbs such as 'Je préfère, J'aime/ Je n'aime pas
Create maps of locations identifying patterns (such as: land use, climate zones,	Read a range of fiction and non-fiction texts
population densities, height of land). Use the eight points of a compass, six-figure grid references, symbols and a key	Show understanding in simple reading Understand basic grammar appropriate to the language being studied including
(that uses standard Ordnance Survey symbols) to communicate knowledge of the United Kingdom and the world.	feminine, masculine, high frequency verbs, key features and patterns of the language
	Choose words, phrases and sentences and write them into a gapped text or as picture captions
	Use grammatical knowledge to create sentences
	Use a bilingual dictionary (hard copy of online) to check spelling of familiar words Write sentences about a topic to send to a contact in a partner school
	Engage in a French day (week) to explore cultural differences:
	Consider aspects of daily life of children in own and in country/countries where language is spoken
	Reflect on cultural issues using empathy and imagination to understand other
	 people's experiences Learn about symbols and objects from own and from country/countries where
	 language is spoken – exchange information with contact at partner school Write labels and signs for objects around school

Music	Art & Design
Hold a part within a round. Sing a harmony part.	Develop techniques, including control and use of materials, with creativity,
Sustain a drone or a melodic ostinato to accompany singing.	experimentation and an increasing awareness of different kinds of art, craft and design.
Improvise within a group performance.	Improve mastery of art and design techniques, including drawing, painting and
Take turns to lead a group.	sculpture with a range of materials [for example, pencil, charcoal, paint, clay]
Sings songs/play from memory or notation with confidence:	Take account of the purpose of the activity.
within a small groupalone	Use research to inspire drawings from memory or imagination.
Perform with an awareness of lyrical content (know what the words mean) and	Develop ideas using different or mixed media using a sketchbook.
occasion.	Alter and refine drawings and describe changes using art vocabulary.
Play a more complex accompaniment on an instrument	Begin to use a variety of techniques to add interesting effects (e.g. reflections, shadows, direction of sunlight).
Create songs with verses and a chorus.	Use lines to represent movement.
Use a number of structures to develop my ideas (e.g. ABACA, a a1 a2)	Build up in stages – foreground and background. Stronger colours at front.
Use drones and melodic ostinati (based on the pentatonic scale).	Begin to combine colours, tones and tints to enhance the mood of a piece.
Demonstrate imagination and confidence in the use of sound.	Sketch (lightly) before painting to combine line and colour.
Show thoughtfulness in collecting sounds and structures to convey an idea.	Begin to use qualities of watercolour and acrylic paints to create interesting pieces.
Create own musical patterns with an awareness of timbre and duration.	Begin to develop a personal style of painting, drawing upon ideas from other artists.
Use a variety of musical devices:	Begin to use brush techniques and the qualities of paint to create texture.
melodyrhythms	To use contrasting textures, colours or patterns.
Create music which uses notations as a support for performance.	To incorporate frottage (rubbing) into collage work.
Read the treble clef musical stave and work out the notes (EGBDF/FACE).	To use tessellation.
Draw the treble clef at the correct position on the stave. Recognise the use of #	To use montage.
(sharp) and b (flat) symbols.	To develop dyeing by investigating natural dyes. To practise basic stitches by incorporating into other work.
Know and use standard musical notation.	To use Batik techniques.
Read notes and know how many beats they represent. Begin to use and understand simple time signatures.	Explore a range of great artists, architects and designers in history.
Extend notation to semi-quaver.	Discuss and review own and others work, expressing thoughts and feelings, identify
Choose a wider range of musical vocabulary to accurately describe and appraise	modifications and see how they can be developed further.
music.	Identify artists who have worked in a similar way to their own work.
Begin to recognise music from different eras of music.	
Describe own music, identifying strengths and weaknesses.	
Understand how lyrics reflect cultural context and have social meaning.	
Refine and improve work.	
Learn about the components and design of key musical instruments and how they evolved.	
PE	Identify and show a range of bridge shapes with back, front or side towards the floor
Demonstrate a range of skills, for passing and receiving, in a controlled manner	
	or apparatus
whilst moving Understand and show how a team can retain possession and find ways of	or apparatus Identify and show the five basic jumps and demonstrate clear body shapes in the air Know and show a range of travelling and jumping activities initiated by pushing/pulling on the floor/apparatus.
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PSHE Education

Make choices about their own behaviour because they understand how rewards and consequences feel

Understand that actions affect themselves and others

Explain the differences between direct and indirect types of bullying

Know some ways to encourage children who use bullying behaviours to make other choices and know how to support children who are being bullied

Describe the dreams and goals of a young person in a culture different from theirs

Reflect on how these relate to their own dreams

Explain how to stay safe when using technology to communicate with friends

Recognise and resist pressures to use technology in ways that may be risky or cause harm to themselves or others

Describe the different roles food can play in people's lives and can explain how people can develop eating problems (disorders) relating to body image pressures

Explain how they expect and value their body

Describe how boys' and girls' bodies change during puberty

Express how they feel about the changes that will happen during puberty

History	RE
Use sources of evidence to deduce information about the past.	In what ways does the Bible teach Christians to treat others?
Understand that no single source of evidence gives the full answer to questions about the past.	10 commandments
	How is this expressed in practice?
Use sources of information to form testable hypotheses about the past.	The ways in which beliefs impact on action: expectations of behaviour, ways in which
Give a broad overview of life in Britain from medieval until the Tudor and Stuarts	people act, examples of contemporary individuals.
times	Look at Christian Aid, street pastors Archbishop of Canterbury etc.
Compare some of the times studied with those of the other areas of interest around the world	How do Hindus reflect their faith in the way they live?
Identify periods of rapid change in history and contrast them with times of relatively little change	Satsang(togetherness)- the importance of family, community and society in thinking of one's dharma (duty).
	What is karma and how does it drive the cycle of samsara?
Use dates and terms accurately in describing events Use appropriate historical vocabulary to communicate including dates, time period, era, chronology, continuity, change, century, decade, legacy etc	How might a Hindu seek moksha?
	What does the Qur'an teach Muslims about how they should treat others?
	How do Muslim teachings guide the way Muslims act in the world?
	Hadith- the collections of teachings to provide guidance on how to follow the straight path (shariah)
	In depth study of Sikhism:
	Look at the key beliefs, practices, festival and symbolism. (see long term plan for more detail)

RSE

To understand what is meant by marriage and civil partnership.

(demonstration of commitment made by two people who love and care for each other and who want to spend their life together and who are of legal age to make that commitment)

To recognise types of teasing and bullying and understand these are wrong and unacceptable.

To know how to report bullying and help someone who has been bullied.

To develop strategies to resolve disputes and conflict through negotiation.

To know to protect their bodies from unwanted and inappropriate contact.

To learn to manage requests for images of themselves and or others/ seek support if worried.

To understand when it is right to break a confidence or share a secret

To understand what stereotype means. (unfair, destructive and negative)

To recognise and challenge stereotypes

To recognise that they many experience conflicting emotions, how to overcome these.

To understand the importance of community participation and its benefits on mental wellbeing.

To develop simple self-care techniques.

To know when to seek support for their mental health.

To realise the consequences of anti-social behaviour.

To know that energy drinks, alcohol and tobacco can damage immediate and future health

To understand the facts and science relating to immunisation and vaccination.

To be aware of school rules that help keep them safe.

To know where and how to get help.

To know basic concepts of first aid for common injuries (head, body, cuts and bruises).

To understand the key facts about puberty.

To understand how their body will, and emotions may change as they move through puberty.

To understand the key facts about menstrual cycle and wellbeing