



Curriculum Framework

for

Year 5

The National Curriculum and the Early Years Foundation Stage

In Nursery and Reception we follow the Early Years Foundation Stage Curriculum. A link to this can be found on our website.

In Years One to Six we follow the national curriculum for England and Wales. A link to the National Curriculum can be found on our website. This gives a detailed breakdown of programmes of study for each curriculum area as follows:

English	Programmes of Study for: <ul style="list-style-type: none">• Year One• Year Two,• “Lower Key Stage Two” (by the end of Year Four)• “Upper Key Stage Two” (by the end of Year Six)• Programmes of Study for each Year Group for Vocabulary, Grammar and Punctuation
Maths	Programmes of Study for each group from Years One to Six
Science	Programmes of Study for each group from Years One to Six
All other National Curriculum Subjects	Attainment Targets and Subject Content for Key Stage One (Years One and Two) and Key Stage Two (Years Three to Six)

We also follow the Cambridgeshire Agreed Syllabus for Religious Education.

How the Curriculum Is Organised

On the following pages you can see what is being taught in each curriculum area each half term.

Whatever we are teaching, there are certain key features that are consistent about how the curriculum is organised and delivered...

1. A “Context for Learning”

We teach most subjects through a “Context for Learning”. This is the over-arching topic we use to provide a meaningful context to the children’s work. Usually each half term will have a different “Context for Learning”. We use these contexts to teach all the national curriculum subjects, and look to make links between the subject areas.

Literacy and mathematics are taught each day and linked to the theme where possible. Some lessons may be taught discretely if they do not fit in with the context for learning.

We may when appropriate focus on a particular curriculum area for a few days. For example, rather than having one art lesson at a particular time every week, children may have a week focusing on art, enabling them to really get their teeth into a particular project.

Some curriculum areas may not be taught every half term (for example, History may be taught one half term then Geography the following half term).

2. An Exciting “Entry Point”

Each context for learning begins with a “wow” entry point for the children. The purpose of these is to stimulate children’s excitement, interest and motivation to learn. These events usually happen in

the first couple of weeks of teaching using that context. They may involve children going on a class trip or it may be an event organised in school.

3. Our Question Boards

Each class begins each half term's context for learning by brainstorming what they already know about the area and generating questions that they would like to find out the answers to. Each classroom has a "questions board" with the children's questions displayed. These help inform the teacher's planning for each half term and are used to help the children to become active, independent learners.

We strongly believe that this skills-based approach to teaching and learning has a positive impact on your child's enjoyment and achievement at school.

A Personalised Curriculum for Your Child

Precise learning objectives are differentiated according to each child's next steps in their learning. You can find out more detail about your child's next steps in learning by coming to the Parents' Evening Meetings in the Autumn and Spring terms, from your child's Annual Written Report in the Summer Term and by making an appointment with your child's class teacher if you feel you need more information or have any concerns.

Homework is another good way of keeping up with what your child is learning. Reading with your child, helping them learn spellings, number bonds, multiplication tables and other activities that are sent home give a good indication of the areas your child is working on.

Our Curriculum for Year 5 for the First Half of Autumn Term

Context for Learning: Jungle Journey

Curriculum Area	Title of Unit of Work (where appropriate)	Brief Description of what is being taught
Literacy	Poetry	<p>Magic Box by Kit Wright: Read poems by significant poets and identify what is distinctive about the style or content of their poems; analyse and compare poetic style, use forms and themes of significant poets; to respond to shades of meaning; to explain and justify personal tastes; convey feelings, reflections or moods in a poem through the careful choice of words and phrases.</p>
	Novels and Short Stories by significant authors	<p>Just So Stories by Rudyard Kipling</p> <p>Read and compare stories by significant children's authors. Include at least one serialised class novel and draw on children's wider reading for examples.</p> <p>Map and compare story structure in different stories. Compare story openings.</p> <p>Explore aspects of an author's style, for example themes, settings, typical characters. Make links with children's own reading habits and preferences. Look at different ways of presenting characters, for example dialogue, action, description, and discuss response.</p> <p>Explore meaning of text through prediction, visualisation and empathy with characters.</p> <p>Develop particular aspects of written narrative: experiment with story openings; write new scenes or characters into a familiar story in the style of the author; organise scenes using paragraphs effectively.</p>
	Recount	Identify the features of recounted texts such as sports reports, diaries, police reports, including introduction to set the scene, chronological sequence, supporting illustrations, degree of formality adopted, use of connectives; write recounts based on subject, topic or personal experiences.
	Reading	Use knowledge of words, roots, derivations and spelling patterns to read unknown words
	Grammar	Speech punctuation, direct and reported speech, need for punctuation, use of commas in embedded clauses, proof reading.

	<p>Spelling</p> <p>Handwriting</p>	<p>Support for Spelling: To spell unstressed vowels in polysyllabic words and to spell words with common letter strings and different pronunciations.</p> <p>Write legibly, fluently and with increased speed by:</p> <ul style="list-style-type: none"> - Choosing which shape of a letter to use when given choices and deciding whether or not to join specific letters. - Choosing the writing implement that is best suited for a task.
Mathematics	<p>Number and place-value (NPV); Written addition and subtraction (WAS)</p> <p>Mental addition and subtraction (MAS); Number and place-value (NPV)</p> <p>Decimals, percentages and their equivalence to fractions (DPE); Number and place-value (NPV); Mental multiplication and division (MMD)</p> <p>Measurement (MEA)</p> <p>Written addition and subtraction (WAS); Mental addition and subtraction (MAS)</p>	<p>Read, write, compare and order 5-digit numbers, understanding the place-value and using < and > signs; add and subtract multiples of 10, 100 and 1000 to and from 5-digit numbers; use written addition to add two 4-digit numbers; work systematically to spot patterns.</p> <p>Add and subtract 2-digit numbers mentally; choose a strategy for solving mental additions or subtractions; solve word problems.</p> <p>Understand place-value in decimal numbers; multiply and divide numbers with up to two decimal places by 10 and 100; multiply and divide by 0 and 100; add and subtract 0.1 and 0.01; multiply and divide by 4 by doubling or halving twice; use mental multiplication strategies to multiply by 20, 25 and 9.</p> <p>Revise converting 12-hour clock times to 24-hour clock times; find a time a given number of minutes or hours and minutes later; calculate time intervals using 24-hour clock format; measure lengths in mm and convert to cm; find perimeters in cm and convert cm to m.</p> <p>Solve subtraction using a written method for 3-digit – 3-digit numbers and for 4-digit numbers; use counting up (Frog) as a strategy to perform mental subtraction; find change from a multiple of ten pounds using counting up.</p>
Science	<p>Animals including humans</p> <p>Living things (including plants)</p>	<p>Describe the changes as humans develop from birth to old age.</p> <p>Explain the differences in life cycles of a mammal, an amphibian, an insect and a bird.</p> <p>Describe the process of reproduction in some plants (sexual and asexual)</p>
Computing	<p>Graphic modelling – revelation natural art & powerpoint</p>	<p>To move rotate and resize graphic elements.</p> <p>That image can be created by combining and manipulating objects.</p> <p>That a graphical model can be used to explore alternatives and identify patterns and relationships.</p> <p>To use geometric tools to create objects that can be manipulated using an object-based graphics package.</p>

Art and Design	Oil pastels and drawing.	Jungle journey collage Rousseau pastel pictures Observational drawing of plants
Music	Old School Hip Hop	Charanga music Unit: Will Smith 'Fresh Prince of Bel Air' Old School Hip Hop
Design and Technology	N/A	N/A
History	N/A	N/A
Geography	Rainforest/map work of the world	Locate the world's countries, using maps to focus on Europe (including the location of Russia) and North and South America, concentrating on their environmental regions, key physical and human characteristics, countries and major cities. Understand geographical similarities and differences through the study of human and physical geography of a region of the UK, a region of a European country and a region within South America.
Languages	French	Parkside Federation Teacher weekly lesson.
Physical Education	Swimming and invasion games.	<u>Swimming:</u> *Swim competently, confidently & proficiently over distance of at least 25 metres. *use range of strokes effectively *perform self-rescue in different water based situations <u>Games (tag rugby):</u> *play competitive games, applying principles of attacking & defending *develop strength, technique, control & balance *use throwing & catching in combination
PHSE and Citizenship	Beginning and belonging	. Contribute ideas for what makes the classroom safe and happy Work with other children to share ideas Work cooperatively with anyone in the class Name feelings I or someone else might experience when we are in a new situation Know and understand a range of reasons why people might arrive new to school describe how it would • feel to be new in the school or in another situation Describe situations where I might need support from a trusted adult or friend
Religious Education	Christianity	How do the beliefs of Christians affect their actions?
Cooking and Nutrition	Rainforest food and crops	Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processes

Educational Visits/Visitors	Botanic Gardens, Cambridge – Rainforests.
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Year 5 list of useful websites for Numeracy, Literacy and Context

Listed below are some useful websites which will help to support your child's learning in Year 5. We have grouped them under Numeracy, Literacy and our current Context for Learning, 'Jungle Journey'. We will send out a list of useful websites for our 'Victorians' Context after half term.

Year 5 Numeracy:

- www.crickweb.co.uk/ks2numeracy.html Links to range of activities, grouped by topics
- www.wmnet.org.uk/wmnet/14.cfm?p=125,index Brilliant site! All areas covered. Hit the Button, Wizard's Number and all Dartboard activities are especially good.
- <http://nrich.maths.org/frontpage> Investigations, challenges and problems
- www.woodlands-junior.kent.sch.uk/maths/ Excellent activities, games, resources.
- www.galileo.org/math/puzzles.html Challenging open ended problems/investigations/real life contexts
- www.subtangent.com/maths/index.php Investigations, games and tests
- www.mathsisfun.com/ Range of activities. Games have strong problem solving/logic links.
- www.bbc.co.uk/bitesize/ks2/maths/ Information, activities, games and quizzes
- www.amblesideprimaryschool.co.uk/Learning.../Maths-Zone.html Great links to range of sites.
- <http://www.surreyheathmathszone.co.uk/activities.htm> Well organised, learning objectives, links to good tasks
- www.coolmath4kids.com/ Range of interactive activities
- <http://www.oswego.org/ocsd-web/games/sumsense/summulti.html> For multiplication practice
- <http://resources.oswego.org/games/mathmagician/mathsmulti.html> For specific times tables practice
- <http://uk.ixl.com/math/year-5> For a wide variety of numeracy practice
- www.topmarks.co.uk For various topics
- <http://mathschallenge.net/index.php?section=latest> Gifted and talented maths challenges
- <http://momath.org/activities/> Museum of mathematics, inspiring math exploration and discovery

Year 5 Literacy:

General Literacy websites:

- <http://www.bbc.co.uk/bitesize/ks2/english/> packed full of great activities and resources for reading, writing, punctuation
- <http://www.bbc.co.uk/bitesize/ks2/english/writing/> excellent for features of different text types
- http://www.bbc.co.uk/bitesize/ks2/english/spelling_grammar/ spelling and grammar activities
- <http://resources.woodlands-junior.kent.sch.uk/literacy/index.htm> excellent links to hundreds of activities for reading, writing, spelling and grammar.

Books/Authors:

http://www.theweeweb.co.uk/authors_websites.php great site that lists hundreds of children's authors with links to author's websites,

<http://www.ukchildrensbooks.co.uk/> directory of children's authors with links to websites

<http://www.wordpool.co.uk/> useful site for helping your child to enjoy reading

Grammar websites:

Past tense game

http://www.saintambrosebarlow.wigan.sch.uk/Fun_and_games/tenses.htm

Sentence structure with words colour-coded by category

<http://www.crickweb.co.uk/ks2literacy.html>

<http://www.apples4theteacher.com/frig.html>

http://www.bbc.co.uk/bitesize/ks2/english/spelling_grammar/sentences/play/

Punctuation games

http://www.lancsngfl.ac.uk/curriculum/literacy/lit_site/lit_sites/alpha_drag/widepage.htm

Noun game – common and proper nouns

<http://www.harcourtschool.com/activity/basketball/index.html>

Pronoun game

http://www.saintambrosebarlow.wigan.sch.uk/Lower_Junior_Activities/marlonspronouns.htm

Adjective games

http://www.ngfl-cymru.org.uk/vtc/ngfl/english/monmouthshire/choose_adj_monmouthshire.html

Reading comprehension – on the following website you will find a variety of interactive and printable games for children to play.

<http://www.everyschool.co.uk/english-key-stage-2-comprehension.html>

Y5 Context for Learning useful websites: 'Jungle Journey'

<http://www.rainforest-alliance.org.uk/kids> excellent site for children. Storybooks, interactive info and games

<http://kids.mongabay.com/> comprehensive website on rainforests

<http://www.mbgnet.net/sets/rforest/index.htm> temperate and tropical rainforests, child guided

<http://www.mobot.org/education/tropics/welcome.html> Missouri botanical gardens web site

<http://library.thinkquest.org/26634/forest/introf.htm> this is an excellent, in depth site which describes the climate, plants, and animals of the tropical rainforest, and also tackles the issues of deforestation, farming, ranching, loss of habitat, and loss of biodiversity

<http://passporttoknowledge.com/rainforest/intro.html> informative about scientists work in rainforests

<http://www.pbs.org/journeyintoamazonia/index.html> interactive journey to the rainforest

<http://science.howstuffworks.com/environmental/conservation/issues/rainforest.htm>

good explanation of how a rainforest works

<http://web.archive.org/web/20120804072414/http://www.srl.caltech.edu/personnel/krubal/rainforest/Edi%20t560s6/www/what.html> rainforest layers, plants and animals

<http://www.rainforesteducation.com/> great pictures, videos and sounds of the amazon

<http://www.cotf.edu/ete/modules/mse/earthsysflr/rforest.html> good sections on animals of different rainforests

http://www.nationalgeographic.com/features/00/earthpulse/rainforest/index_flash-feature.html

rainforest at night

<http://www.rain-tree.com/schoolreports.htm> lots of good information and links to other good sites

Animals of Rainforest:

<http://www.mbgnet.net/sets/rforest/animals/index.htm> interactive rainforest animal fact files

<http://www.abcteach.com/RainforestFacts/Rainforestfacts.htm> activity sheets
<http://www.rainforestanimals.net/> rainforest animals, links, fun activities
<http://www.rainforesteducation.com/life/canopy3.htm> animals of the canopy layer
<http://www.rainforesteducation.com/life/understory.htm> animals of understory layer
<http://www.rainforesteducation.com/life/forestfloor1.htm> animals of forest floor layer
<http://environment.nationalgeographic.com/environment/photos/rainforest-tropical-wildlife/>
photos/videos of rainforest animals
<http://web.archive.org/web/20120804071151/http://www.srl.caltech.edu/personnel/krubal/rainforest/Edi+t560s6/www/animals.html> interactive information on wide range of rainforest animals

Amazon Rainforest:

<http://www.eduweb.com/amazon.html> interactive (Ecuador)
http://www.bbc.co.uk/schools/gcsebitesize/geography/ecosystems/tropical_rainforests_rev1.shtml
comprehensive BBC site
<http://www.geography.learnontheinternet.co.uk/topics/rainforest.html> location and characteristics
<http://www.magikbirds.com/ctf/facts/facts.htm> colourful factsheets, very child friendly

Layers of the rainforest:

<http://www.smm.org/sln/tf/s/strata/strata.html> brilliant interactive site
<http://www.mbgnet.net/sets/rforest/explore/layers.htm> exploration of layers of a rainforest
<http://www.tigerhomes.org/animal/layers-rainforest.cfm> clear information about each layer
<http://kids.nationalgeographic.com/kids/photos/tropical-rainforests/> games and activities
<http://environment.nationalgeographic.com/environment/photos/rainforests-tropical/> photos
<http://www.lovethepics.com/2011/10/amazing-amazonia-amazon-rainforest-46-pics/> pictures
<http://www.enchantedlearning.com/subjects/rainforests/> clear information
<http://www.wildlifefocus.org/webcam/> webcams from rainforests around world

Rainforest Plants:

<http://web.archive.org/web/20120310115519/http://www.srl.caltech.edu/personnel/krubal/rainforest/Edi+t560s6/www/plants.html> excellent site about how plants are adapted for life in rainforests
http://www.blueplanetbiomes.org/rnfrst_plant_page.htm Sounds
<http://www.exploratorium.edu/frogs/rainforest/> sounds of Puerto Rican rainforest

Our Curriculum for Year 5 for the Second Half of Autumn Term

Context for Learning: Victorians

Curriculum Area	Title of Unit of Work (where appropriate)	Brief Description of what is being taught
Literacy		Narrative Poetry (The Highwayman), Novels by significant authors (Charles Dickens), Recount and report writing (Victorian School day) and Diary writing (Street Child).
Mathematics	<p>Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP)</p> <p>Number and place-value (NPV); Written multiplication and division (WMD)</p> <p>Geometry: properties of shapes (GPS)</p> <p>Number and place-value (NPV); Fractions, ratio and proportion (FRP); Decimals, percentages and their equivalence to fractions (DPE)</p> <p>Number and place-value (NPV); Mental addition and subtraction (MAS); Written addition and subtraction (WAS); Mental multiplication and division (MMD); Written multiplication and division (WMD)</p>	<p>Recognise which numbers are divisible by 2, 3, 4, 5, 6, 9 and 25 and identify multiples; find factors; compare and place fractions on a line; find equivalent fractions and reduce them to their simplest form.</p> <p>Use mental strategies to multiply and divide multiples of 10 and 100; use a written method to multiply 3-digit and 4-digit numbers by 1-digit numbers and estimate answers, divide 3-digit numbers by 1-digit numbers using a written method and express remainders as a fraction.</p> <p>Use a protractor to measure and draw angles in degrees; recognise, use terms and classify angles as obtuse, acute and reflex; recognise that angles on a line total 180° and angles round a point total 360°; identify and name parts of a circle including diameter, radius and circumference; draw circles to a given radius using a pair of compasses; relate angles to turns, and recognise that a 360° angle is a complete turn; use angle facts to solve problems related to turn.</p> <p>Place numbers to 100 000 and decimals up to two places on a line, round numbers to the nearest 10, 100 and 1000 and decimals up to two places to the nearest whole number; compare and order numbers with up to two decimal places; reduce fractions to their simplest form; know and recognise equivalent fractions and decimals to half, tenths and fifths.</p> <p>Revise mental and written addition and subtraction strategies; choose to use a mental strategy or written method to solve addition and subtraction; choose to solve multiplication and division questions including 2- and 3-digit by 1-digit and 2-digit by 2-digit using a mental or a written method; identify the operation being used on numbers; understand that addition and subtraction are inverse operations multiplication and division; use function machines.</p>
Science	Properties and changing materials	Properties and changing materials
Computing		Victorian Criminal Investigation (online) and Census study.
Art and Design		Oil pastels and drawing: Designing and Making Victorian Christmas Cards.
Music	Guitars	Guitar lessons (Ross Wilson) every Monday (Guitars provided).

Design and Technology	Cam based toys	Moving Victorian Cam Based Toys
History	Victorians	Life For Victorian Children (School and work) and Cemetery Study. Local study.
Geography		Map work (British Empire)
Languages		French
Physical Education		Invasion games (hockey/football) and swimming.
PHSE and Citizenship		Personal Safety Anti bullying
Religious Education	Christianity	Jesus: Who do people say I am? – Jesus explored through art
Cooking and Nutrition		Prepare savoury dishes using a range of techniques: carrot and coriander soup.

Educational Visits/Visitors	<ul style="list-style-type: none"> • <i>A.N.Wilson:</i> well respected historian. Expert on Queen Victoria and the Victorian period will be visiting St.Matthew's to talk to the children about Queen Victoria and answer their questions. • <i>Visit to Mill Road Cemetery to investigate Victorian Gravestones:</i> each class will visit the cemetery to carry out a survey of the Victorian gravestones and carry out a range of evidence based tasks prior to and post visit, which has been planned in conjunction with the Folk Museum. • <i>Designing and Making Victorian Style toys, using Cam based mechanisms:</i> We will provide the children with all of the Cam based parts but could do with small cardboard boxes, card, plastic bottle tops, straws, buttons etc. (Please start collecting now!) • <i>Investigating and Making traditional Victorian Christmas Cards:</i> We will require lace, buttons, old fashioned Christmas paper, old Christmas cards, ribbon etc. (Please start collecting now!)
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Y5 Context for Learning Autumn Term 2nd Half: 'Victorians'

Listed below are some **useful websites** which will help to support your child's learning in our '**Victorians**' **Context** this half term. Please continue to use the list of useful websites for Literacy and Numeracy which we sent out in September. All of our lists of Useful websites can be found in the Year 5 Curriculum section on the school website.

Victorians Useful Websites:

<http://homeworkhelp.stjohnssevenoaks.com/victorians.html> Fascinating facts about Queen Victoria and Victorian times.

<http://www.queen-victorias-scrapbook.org/index.html> Browse a scrapbook - complete with diary entries, photos and film clips - all about the life of Queen Victoria.

<http://www.bl.uk/learning/histcitizen/victorians/victorianhome.html> Discover all aspects of Victorian life, from the period's staggering achievements to its deep social problems, with slide shows, posters, diaries, newspaper accounts and sound clips.

<http://www.mccord-museum.gc.ca/en/keys/games/17> Test your sense of Victorian manners with an online game.

<http://www.nationalarchives.gov.uk/education/victorianbritain/lawless/default.htm> Catch criminals as a Victorian policeman. (Click on "Activity One" to begin.)

http://www.bbc.co.uk/schools/primaryhistory/victorian_britain/ Find out about Victorian children at work, school and play, with animations, quizzes and activities.

<http://victorians.swgfl.org.uk/welcome.htm> Follow a day in the life of a Victorian family, see lots of original artifacts and play with Victorian toys online.

<http://www.geffrye-museum.org.uk/learning/walk-through-> Travel back in time and explore the rooms of a Victorian home. (Move your mouse over each scene to find out more about everyday life.)

<http://www.cookit.e2bn.org/historycookbook/index-23-victorians.html> Victorian food facts, recipes to try at home and video clips of how to prepare some Victorian meals.

<http://www.bbc.co.uk/history/forkids/> Try your luck as a Victorian cotton entrepreneur, take a quiz on women's rights or find out about life for Victorian children. (Click on "British History" and click on Victorian topics.)

<http://www.bbc.co.uk/history/british/victorians/> Watch animations of Stephenson's Rocket and other Victorian inventions. (Click on "Victorian Technology and Innovation" then one of the animations.)

<http://www.nationalarchives.gov.uk/education/victorianbritain/happy/default.htm> See how railways changed Victorian life.

<http://www.bbc.co.uk/schools/primaryhistory/famouspeople/> Online guides to Isambard Kingdom Brunel, Florence Nightingale, Mary Seacole, Elizabeth Fry and George Stephenson, with games and quizzes.

<http://www.bbc.co.uk/drama/bleakhouse/animation.shtml> Meet Charles Dickens in an animated look at his life.

<http://www.nationalarchives.gov.uk/education/victorianbritain/great/default.htm> Did life improve during Queen Victoria's reign?

<http://www.show.me.uk/hosted/networks/networks.swf> [Move It! In 1850 By Train, Wagon And Boat](#) A Victorian race against time and money from Show Me and Thinktank.

<http://www.mylearning.org/interactive.asp?journeyid=281&resourceid=745> Help Mary Seacole make plant medicine for the Crimean soldiers.

http://www.brainboxx.co.uk/a4_resource/pages/history/VICTORIANS.htm Find out about work, school and play for children in Victorian Britain. Interactive games and well presented information with original source materials and LINKS to other sites

<http://www.channel4.com/learning/microsites/Q/qca/victorians/> people who helped children. timelines, victorian schools and a victorian toy shop,

Our Curriculum for Year 5 for the First Half of Spring Term

Context for Learning: Space Race

Curriculum Area	Title of Unit of Work (where appropriate)	Brief Description of what is being taught
Literacy	Poetry	Poems based on travels to outer space.
	Recounts	Based on the <i>Thousand Yard Model</i> <ul style="list-style-type: none"> - Children will review the important features of a recount and will put them into practice by writing about their Parker's Piece 1000 yard model investigation.
	Non-fiction newspaper and television reports	Based on the book, Tuesday . <ul style="list-style-type: none"> - Children study the book and act as investigators and news reporters. - Children will learn about reported and direct speech. - Hot-seating and role playing. - Children will create newspaper articles. - Children will also create news reports which will be recorded to play back to the class.
	Film narrative Biography	Based on the short film, <i>The Piano</i> . <ul style="list-style-type: none"> - Children will learn about the features of a biography. - Children will also learn about the features of an autobiography and write about themselves.
Mathematics	Number and place-value (NPV); Decimals, percentages and their equivalence to fractions (DPE)	Read, write and order numbers with up to 6 digits and understand the place-value of each digit; place 6-digit numbers on a number line and find numbers between; solve place-value additions and subtractions with 6-digit numbers; understand place-value in decimal numbers as tenths and hundredths; multiply and divide by 10 /100/1000 using a place-value grid; understand place-value in decimal numbers to 2-decimal places; place decimal numbers on a line; round 2-place decimal numbers to nearest tenth and whole number; say the number a tenth or a hundredth more.
	Mental addition and subtraction (MAS); Written addition and subtraction (WAS)	Rehearse mental addition strategies for decimals and whole numbers; use counting on as a strategy to perform mental addition of 2-place decimals to the next whole number; solve missing number sentences; use mental strategies to solve word problems; use counting up as a strategy to perform written subtraction (Frog).
	Number and place-value (NPV); Mental multiplication and division (MMD); Measurement (MEA)	Use rules of divisibility to find if numbers are divisible by 2, 3, 4, 5, 9 and 10; identify prime numbers; revise finding factors of numbers; find squares and square roots of square numbers; make and test rules; use mental multiplication and division strategies; relate mental division strategies to multiples of ten of the divisor.
	Geometry: properties	Know properties of equilateral, isosceles, scalene and

	of shapes (GPS); Measurement (MEA) Written addition and subtraction (WAS)	right-angled triangles; find that angles in a triangle have a total of 180°; sort triangles according to their properties; use scales to weigh amounts to the nearest half interval; convert from grams to kilograms and vice versa, from millilitres to litres and vice versa, and from metres to kilometres and vice versa; read scales to the nearest half division; understand that we measure distance in kilometres and miles; use ready reckoning to give approximate values of miles in kilometres and vice versa; draw line conversion graphs. Use a written column method to add amounts of money in pounds and pence; add 2-place decimals using written column addition; subtract decimal numbers using counting up (Frog).
Science	Space	Describe the movement of the Moon relative to the Earth. Describe the movement of the Earth and other planets, relative to the Sun in the solar system.
Computing	Programming	Probots/Scratch
Art and Design	Pastels Pencil drawing and shading Papier mache	Patchwork planets Galileo Moon drawing Papier mache planets
Music	Guitars	Guitar lessons (Ross Wilson) every Monday (Guitars provided).
Design and Technology	N/A	N/A
History	Space Race	History of space travel Changes and developments in Space Exploration
Geography	N/A	N/A
Languages	French	Parkside Federation Teacher weekly lesson.
Physical Education	Outdoor & Adventure Activities Net games Invasion games Dance Fitness	Premier Sport Badminton Hockey Mirroring dance based on Space and the Literacy topic, <i>Tuesday</i> Regular 5 A-day TV fitness sessions in class
PHSE and Citizenship	My Emotions	Children will be able to identify some feelings, know who to speak to if they feel worried and will familiarise themselves with class rules and routines.
Religious Education	Buddhism	What does it mean to be a Buddhist? Can we all be enlightened?

Cooking and Nutrition		Prepare a savoury food using a range of techniques: Potato scones
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Educational Visits/Visitors	<ul style="list-style-type: none">• <i><u>Parker's Piece</u> Thousand yard solar system investigation: The earth as a Walnut:</i> - We will be taking the children to Parker's Piece to investigate the distances between planets in a practical context.• <i>Professor Carolin Crawford (University Department of Astronomy)</i> talk with the children to share her expertise knowledge.• Science Museum Trip (London): Space exploration, Legend of Apollo 3D and 4D experiences (TBC)
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Y5 Context for Learning Spring Term 1st Half: 'Space Race'

USEFUL WEBSITES

Listed below are some **useful websites** which will help to support your child's learning in our 'Space Race' Context this half term. Please continue to use the list of useful websites for Literacy and Numeracy which we sent out in September. All of our lists of Useful websites can be found in the Year 5 Curriculum section on the school website.

www.sunaeon.com Brilliant interactive solar system, video clips, linked space related music

www.kidsastronomy.com Solar system information, games and astronomy

www.spacekids.co.uk/solarsystem Information about the planets

<http://science.nationalgeographic.com/science/space/solar-system/> interactive exploration of Solar system

<http://www.nasa.gov/audience/forchildren/home/index.html> NASA official site, great videos of missions, spacecraft, astronauts etc.

www.atlasoftheuniverse.com/ an atlas of the universe

www.gigagalaxyzoom.org/B.html zoom in on the Milky Way Galaxy

www.spacecentre.co.uk National Space centre website

www.rmg.co.uk/royal-observatory Royal observatory in Greenwich

www.sciencemuseum.org.uk good Space section

http://www.ngfl-cymru.org.uk/vtc/earth_and_space/eng/Introduction/default.htm Interactive lesson, orbits and phases of moon

http://spacetelescope.org/about/general/fact_sheet/ The Hubble Space Telescope - information site,

<http://amazing-space.stsci.edu/resources/explorations/groundup/> history of space telescopes

<http://amazing-space.stsci.edu/resources/explorations/cometmyth/home.html> interactive site all about comets.

<http://resources.woodlands-junior.kent.sch.uk/revision/science/space.htm> great site with information, quizzes, tests and lots of links to good child friendly websites

http://www.bbc.co.uk/bitesize/ks2/science/physical_processes/earth_sun_moon/play/ bbc interactive site

Our Curriculum for Year 5 for the Second Half of Spring Term

Context for Learning: Sailors and Smugglers

Curriculum Area	Title of Unit of Work (where appropriate)	Brief Description of what is being taught
Literacy		<p><u>Adventure texts ('Moonfleet' by J.M. Faulkner):</u></p> <ul style="list-style-type: none"> To describe how a character is feeling and to infer what they might be thinking To convey empathy to the reader through good language choices To describe a setting and devise an adventure narrative. <p><u>Poetry ('A Smugglers Song' by Kipling)</u></p> <p><u>Newspaper Reports.</u></p>
Mathematics	<p>Written multiplication and division. (WMD). Written multiplication and division (WMD) Fractions, ratio and proportion (FRP)</p> <p>Geometry: properties of shapes (GPS) Problem solving, reasoning and algebra (PRA) Measurement (MEA)</p> <p>Fractions, ratio and proportion (FRP) Problem solving, reasoning and algebra (PRA)</p> <p>Written addition and subtraction (WAS) Problem solving, reasoning and algebra (PRA)</p>	<p>Use a written method (grid) to multiply pairs of 2-digit numbers; use short division to divide 3-digit numbers by 1-digit numbers, including those which leave a remainder</p> <p>Find unit fractions and non-unit fractions of 3-digit numbers; use short multiplication to multiply 3-digit numbers by 1-digit numbers; begin to use short multiplication to multiply 4-digit numbers by 1-digit numbers</p> <p>Understand what a polygon is; draw polygons using dotted square and isometric paper; revise terms obtuse, acute and reflex angles, perpendicular and parallel sides; recognise quadrilaterals as polygons and identify their properties; classify quadrilaterals; draw regular polygons and explore their properties; revise metric units of weight, capacity and length; understand that we can measure in imperial units and relate these to their instances in daily life</p> <p>Place mixed numbers on lines; count up in fractions using equivalence; convert improper fractions to mixed numbers and vice versa; write improper fractions as mixed numbers and vice versa; multiply proper fractions by whole numbers</p> <p>Solve subtraction of 4-digit numbers using written</p>

		column subtraction (decomposition); add several numbers using written column addition; use column to solve problems
Science	Opposing forces.	Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction that act between moving surfaces.
Computing	Programming	Scratch
Art and Design	Pastel and paint	Seascape
Music	Guitars	Guitar lessons (Ross Wilson) every Monday (Guitars provided).
Design and Technology	Building models of lighthouses with electrical components.	Making light houses <ul style="list-style-type: none"> - Children look at different light houses. Children plan own design and make using junk modelling. - Children construct circuits inside light houses to make them flash. - Children complete evaluation sheet.
History	Smuggling	History of famous sailors and smugglers, using a range of sources about smuggling
Geography	Coasts	Areas of sailors and Smugglers Smuggling map of UK
	Physical features	Costal erosion
Languages		French
Physical Education	Dance	Dance: Sailors , sea shanties
	Gym	Gym: Holes & Barriers
PHSE and Citizenship		Financial Capability
Religious Education	Islam	
Cooking and Nutrition		Vegetable and noodle stir fry.

Educational Visits/Visitors	<u>Sailors and Smugglers day</u> : carousel-based activities in school. Children will take part in a rotation of five activities across the day. We would like all of the children to come in costume on the day please. Further details will follow shortly.
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Y5 Context for Learning Spring Term 2nd Half: 'Sailors and Smugglers'

Listed below are some **useful websites** which will help to support your child's learning in our 'Sailors and Smugglers' Context this half term.

Smuggling:

www.smuggling.co.uk/ Excellent site. Information and maps of places and people involved in historical smuggling in Britain

<http://dorsetsea.swgfl.org.uk/index2.html> Track down [smugglers](#), investigate five terrifying [shipwrecks](#), discover more about the people and their lives in the [Archive](#) and explore [Virtual Galleries](#)

www.bl.uk/learning/langlit/texts/ship/shipwrecksandsmuggling.html British Library original source based site

http://www.solarnavigator.net/smugglers_and_smuggling.html Smuggling information

<http://www.schoolhistory.co.uk/lessons/crimepunishment/smuggling.shtml> interactive site investigating smuggling, causes, reasons for doing it and punishments.

www.cornwall-calling.co.uk/smugglers.htm lots of information about Cornish smuggling

Sailors/Sailing:

<http://sailsafe.rmq.co.uk/> safety at sea, sailing information, lighthouses etc

Coasts:

<http://www.ukcoastguide.co.uk/> great site exploring all areas of UK coastline

<http://www.bbc.co.uk/learningzone/clips/coastlines-coastal-erosion/8439.html> video clip on coastal erosion

<http://www.kenttrustweb.org.uk/kentict/content/coasts/index.html> interactive book on coastal environments

<http://www.bbc.co.uk/schools/riversandcoasts/> information on coastal features

http://www.bbc.co.uk/schools/riversandcoasts/coasts/change_coast/index.shtml How coasts are changing

Sea Shanties:

http://www.musicmiles.com/sea_shanties.htm information on wide range of sea shanties

<http://www.cheekymonkeyresources.co.uk/Music/seashanties.html> collection of links to sea shanties to listen to

Lighthouses:

<http://www.lighthousekitty.com/wobs/lnhinfo.htm> excellent site for children

http://www.trinityhouse.co.uk/lighthouses/lighthouse_list/index.html lighthouses around UK

http://www.photographers-resource.co.uk/A_heritage/Lighthouses/Lighthouse_structure.htm excellent pictures and information about how lighthouses work

<http://www.alk.org.uk/> The association of lighthouse keeper's site. Excellent site lots of great links

<http://www.pznw.co.uk/maritime/lighthouse.html> Cornwall lighthouses

Literacy Links: 'Moonfleet' by J. Meade Falkner

<http://en.wikipedia.org/wiki/Moonfleet> information about book and author

<http://www.johnmeadefalknersociety.co.uk/> site all about the author and the locations in Moonfleet

<http://www.bibliomania.com/0/0/frameset.html> entire text of the novel

<http://www.rjbw.net/Moon-01.html> summary of novel

Our Curriculum for Year 5 for the Summer Term (First and Second Half)

Context for Learning: Ancient Greece

Curriculum Area	Title of Unit of Work (where appropriate)	Brief Description of what is being taught
Literacy	Big Write Myths and Legends	Meet the Greeks. Children will be learning about Greek myths and legends. What is a myth? What is a legend? They will discuss similarities and differences between them. What myths and legends do we know of? (Wooden Horse of Troy, Pandora's Box, Heracles, Daedalus and Icarus, Perseus, Theseus and the Minotaur). Children will write play scripts and eventually write up their own myth or legend.
Mathematics	Mental addition and subtraction(MAS) Decimals, percentages and their equivalence to fractions(DPE) Problem solving, reasoning and algebra(PRA) Fractions, ratio and proportion(FP) Problem solving, reasoning and algebra(PRA) Written multiplication and division(WMD) Decimals, percentages and their equivalence to fractions(DPE) Problem solving, reasoning and algebra(PRA) Number and place value(NPV) Geometry: position and direction(GPD) Problem solving, reasoning and algebra(PRA) Geometry: properties	Add mentally 2-place decimal numbers in the context of money using rounding; add several small amounts of money using mental methods; mentally subtract amounts of money including giving change; calculate the difference between two amounts using counting up; solve word problems, including 2-step problems, choosing an appropriate method Multiply fractions less than 1 by whole numbers, convert improper fractions to whole numbers; use short multiplication to multiply 3-digit and 4-digit numbers by 1-digit numbers; use long multiplication to multiply 2-digit and 3-digit numbers by teens numbers Read, write and compare decimals to three decimal places, understanding that the third decimal place represents thousandths; multiply and divide numbers by 10, 100 and 1000 using 3-place decimal numbers in the calculations; place 2-place decimals on a number line and round them to the nearest tenth and whole number; read, write, order and compare 3-place decimal numbers; understand and use negative numbers in the context of temperature Read and mark co-ordinates in the first two quadrants; draw simple polygons using co-ordinates; translate simple polygons by adding to and subtracting from the co-ordinates; reflect simple shapes in the y axis or in a line, noting the effect on the co-ordinates; translate simple shapes and note what happens to the co-ordinates; draw regular and irregular 2D shapes using given dimensions and angles; use the properties of 2D shapes, including rectangles, to derive

	<p>of shapes(GPS)</p> <p>Written addition and subtraction(AS) Problem solving, reasoning and algebra(PRA)</p> <p>Mental multiplication and division(MMD) Problem solving, reasoning and algebra(PRA) Fractions, ratio and proportion(FRP)</p> <p>Written multiplication and division(WMD)</p> <p>Problem solving, reasoning and algebra(RA) Measurement(MEA)</p> <p>Decimals, percentages and their equivalence to fractions(PE) Fractions, ratio and proportion(FRP) Number and place value(NPV)</p> <p>Number and place value(NPV) Statistics(STA) Measurement(MEA) Written multiplication and division(WMD)</p>	<p>related facts; identify 3D shapes from 2D representations; create 3D shapes using 2D nets and draw 3D shapes</p> <p>Add 5-digit numbers using written column addition; subtract 5-digit numbers using written method (decomposition); check answers to subtractions using written column addition; solve subtractions of 4- and 5-digit numbers using written column subtraction or number line counting up</p> <p>Identify factors and multiples, find factor pairs; revise equivalent fractions; compare and order fractions with related denominators; add fractions with same or related denominators, then convert answer into a mixed number; subtract fractions with same and related denominators, revise multiplying fractions by whole numbers</p> <p>Use short division to divide 3-digit numbers by 1-digit numbers and 4-digit numbers by 1-digit numbers, including those which leave a remainder; express a remainder as a fraction; use long multiplication to multiply 3-digit and 4-digit numbers by teens numbers</p> <p>Find the area and perimeter of squares and rectangles by calculation and pursue a line of enquiry; estimate and find the area of irregular shapes; calculate the perimeter and area of composite shapes; use the relations of area and perimeter to find unknown lengths; begin to understand the concept of volume; find the volume of a cube or cuboid by counting cubes; understand volume as measurement in three dimensions; relate volume to capacity; recognise and estimate volumes</p> <p>Understand what percentages are, relating them to hundredths; know key equivalences between percentages and fractions, finding percentages of amounts of money; find equivalent fractions, decimals and percentages; solve problems involving fraction and percentage equivalents; write dates using Roman numerals</p> <p>Find cubes of numbers to 10; draw and interpret line graphs showing change in temperature over time; begin to understand rate; use timetables using the 24-hour clock and use counting up to find time intervals of several hours and minutes; solve problems involving scaling by simple fractions; use factors to multiply; solve scaling problems involving measure</p>
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	Problem solving, reasoning and algebra(PRA) Mental multiplication and division(MD)	
Science	Healthy Eating	Functions of the heart and lungs. How to measure our pulse. Food journals. Learning about a healthy balanced diet.
Computing	Organising Data	First Half: Intro to spreadsheets – excel Second half: E-safety
Art and Design	Greek artefacts	First Half: Greek mural – painting; Mosaic tiles Second half: Greek vases/clay pots
Music	Guitars	Guitars with Ross on Mondays.
Design and Technology		First half: Not applicable Second half: Design and making Trojan horses
History	Ancient Greece	To understand how Ancient Greece fits into the past. To know about Greek gods and goddesses and use this to develop their own god. To use styles of Greek architecture to design their own temple.
Geography	Mapwork Modern/Ancient Greece	Use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied.
Languages	French	Lessons with French teacher every Tuesday.
Physical Education	Net games Gym	First half: Games: Cricket and Tennis Second Half: Gymnastics; Athletics: throwing, relay running; Games : S & F:Rounders
PHSE and Citizenship	Healthy lifestyles	First half: Body image – how we see ourselves; Hygiene Second half: Managing Risk; Safety; Sex and Relationship Education
Religious Education	Hinduism Christianity	First half: What can stories and images of deities tell us about Hindu beliefs? Second half: Where did the Christian Holy Book come from?
Cooking and Nutrition	Healthy eating.	First half: Olive bread/Humus Second half: Berry breakfast pancakes

Educational Visits/Visitors	Ancient Greek Day Visit to the Fitzwilliam Museum
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