

Year 5 Curriculum Overview – September 2016 – July 2017

Year 5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Stargazers	Pharaohs	Peasants, Princes and Pestilence	Beast Creator	Allotment	Time Traveller
English	<p>Reading</p> <ul style="list-style-type: none"> Apply knowledge of morphology & etymology when reading new words. Read and discuss a broad range of genres & texts Identify and discuss themes Make recommendations to others Learn poetry by heart Draw inference and make predictions Discuss authors' use of language Retrieve and present information from non-fiction texts <ul style="list-style-type: none"> Formal presentations and debates 	<p>Writing</p> <ul style="list-style-type: none"> Secure spelling, inc. homophones, prefixes, silent letters etc. Legible, fluent handwriting Use a thesaurus Plan writing to suit audience & purpose Develop character, setting and atmosphere in narrative Use organisation & presentational features Use consistent appropriate tense Proof-reading Perform own compositions 	<p>Grammar</p> <ul style="list-style-type: none"> Use expanded noun phrases Use modal and passive verbs Use relative clauses Use commas for clauses Use brackets, dashes & commas for parenthesis <p>Speaking & Listening</p> <ul style="list-style-type: none"> Give well-structured explanations Command of Standard English Consider & evaluate different viewpoints Use appropriate register 	<p>Spelling</p> <ul style="list-style-type: none"> Unstressed vowels Common letter strings Consonant spelling patterns Prefixes Spelling rules Roots, derivations, spelling patterns 		

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Maths

Number and Calculation

- Secure place value to 1,000,000
- Use negative whole numbers in context
- Use Roman numerals (M)
- Use standard written methods for all four operations
- Confidently add and subtract mentally
- Use vocabulary of prime, factor and multiple
- Multiply and divide by powers of ten
- Use square and cube numbers

Geometry & Measures

- Convert between different units
- Calculate perimeter of composite shapes and area of rectangles
- Estimate volume and capacity
- Identify 3-d shapes
- Measure and identify angles
- Understand regular polygons
- Reflect and translate shapes
- Data
- Interpret tables and line graphs
- Solve questions about line graphs

Fractions

- Compare and order fractions
- Add and subtract fractions with common denominators, with mixed numbers
- Multiply fractions by units
- Write decimals as fractions
- Order and round decimal numbers
- Link percentages to fractions and decimals

Science

Earth and space

Describe the movement of the Earth and other planets relative to the sun in the solar system
Describe the movement of the moon relative to the Earth
Describe the sun, Earth and moon as approximately spherical bodies
Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky

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
Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect

Properties and changes of Materials

Classify materials according to a variety of properties.
Understand mixtures and solutions.
Know about reversible changes / recognise irreversible changes.

Properties and changes of Materials

Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
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 burning and the action of acid on bicarbonate of soda

Living things and their habitats

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.

Animals including humans

Describe the life cycle of mammals and learn about changes that occur as humans develop and mature.

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	<u>Earth and Space</u>	<u>Pharaohs</u>	<u>Peasants, Plague and Pestilence</u>	<u>Beast Creator</u>	<u>Allotment</u>	<u>Time Traveller</u>
DT	Create a scale model of the solar system.	Create a death mask. Use annotated sketches.		Make sculpture mini-beasts.		
Art	To create a stunning solar system mixed media artwork.		Skull sketching – pencil drawing skills.	Study sketches by Charles Darwin and create own sketch of a minibeast.	Botanical drawings. Detailed drawing and paintings of plants.	Study the proportions of sketching faces and how facial features change over time.
Geography	Study the distances between the Sun and planets in the solar system.	Find Egypt on a World Map. Locate significant features of Egypt. Understand the importance of the River Nile to Egyptian communities.	Plot the journey of the origin of the Black Death to England. Explore geographical and human factors behind the spread of the infection.	Locate where the world's deadliest mini-beasts live and why they choose these environments. Mini-beast hunt.	Monitor environmental conditions needed for plant growth. The journey of food to the supermarket.	Consider changes to the local community over the last 100 years. Study of local human geography, settlements and land use.

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History	<u>Earth and Space</u> Research Isaac Newton and his discovery of gravity. Important historical dates related to space: discovery of planets, moon landing, etc.	<u>Pharaohs</u> Analysing Egyptian artefacts. The discovery of Tutankhamun's tomb. Study of the hierarchy of society. Exploring social and religious practices – e.g. mummification.	<u>Peasants, Plague and Pestilence</u> Study of the Black Death. Exploration of social class in 14th Century England. The Peasants' Revolt.	<u>Time Traveller</u> History of aspects of daily life such as school. Study of changes in the local area and land use over the last 100 years.		
Computing (includes e-safety)	Game development – Design and write programs to solve programmes. Use sequence, repetition, inputs, variables and outputs in programs. Detect and correct errors in programs.	Cryptography – Detect and correct errors in programs. Understanding the uses of networks for collaboration and communication. Discern and evaluate digital content.	E-Safety Discuss the benefits, impact and dangers of social media and the internet. Discern and evaluate digital content.	Computer Art – Use sequence, repetition, inputs, variables and outputs in programs. Detect and correct errors in programs.	Blogging – Understanding the uses of networks for collaboration and communication.	3-D digital modelling – use architectural software to create an art gallery.
PE Topic	Invasion Games	Invasion Games	Creative Movement & Net and Wall	Creative Movement & Net and Wall	Athletics	Strike & Field
Theme	Netball & Basketball	Tag Rugby	Gymnastics, Tennis	Gymnastics, Tennis	Athletics	Cricket & Rounders

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RE	What helps Hindus to worship?	What does it mean to be a Hindu? Why is light an important sign at Christmas?	Who did Jesus say I am?	How did Jesus's teaching challenge people? How do Christians know what happened at Easter?	What is the golden rule and are they all the same?	How did it all begin?
PSHE	<u>We're All Stars!</u> Devising a class charter Gifts and talents Exploring feelings Working cooperatively Communication skills Role models	<u>Be Friendly, Be Wise</u> Different types of friends Conflict resolution Managing anger Anti-bullying	<u>Daring to be Different</u> Differences of opinion Agreeing and disagreeing Risky choices Standing out from the crowd Being assertive Anti-bullying	<u>Dear Diary</u> Knowing where to go for help Managing uncomfortable feelings - embarrassment Put-downs and boost ups Breaking friends Forgiveness Supporting each other	<u>Joining In and Joining Up</u> Anti-social behaviour and the consequences of crime Rules and laws The local courts Voting and debating Having a say in the school community	<u>Keeping Healthy</u> To understand the importance of hygiene. Drugs Education.
SRE						Lifecycles and SRE – Lifecycle of plants and animals (including mammal, amphibian, insect and bird).

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Music	Brazilian Samba Drumming Perform with control and expression, solo and in ensembles. Improvise and compose using dimensions of music (eg. rhythm, syncopation). Listen to detail and recall orally. (Cultural development – evaluating and reflecting on music from contrasting traditions)		West African Djembe Drumming – Perform with control and expression, solo and in ensembles. Improvise and compose using dimensions of music (eg. rhythm, syncopation). Listen to detail and recall orally.		Use and understand basics of stave notation	Develop an understanding of the history of music, including great musicians and composers.
MFL / French	<u>Holidays</u> More countries Holiday accommodation Vocabulary associated with the zoo, beach and theme park Using the perfect past tense	<u>Eating Out</u> Asking for items in a shop or restaurant Asking how much things cost Some basic weights How to order for others in a restaurant	<u>Hobbies</u> Naming hobbies Talking about types of music and giving a variety of opinions Saying what musical instruments they play Talking about different types of film	<u>School Trip</u> The perfect past tense The future tense Some common verbs associated with a trip to a museum and the countryside.	<u>Seasons</u> The names of seasons Talking about seasonal activities Saying the date and when their birthday is Naming craft materials Following craft instructions	<u>The Environment</u> Saying what the weather is like Naming garden creatures Talking about garden activities Talking about recycling
Class Reading Book	Holes		The Lion, The Witch and the Wardrobe		Romeo & Juliet	
School Trips	Learning Dome Hindu Temple Visit	Legend Theatre – Ancient Egypt	Bikeability L1		Kew Gardens	Blenheim Science Festival