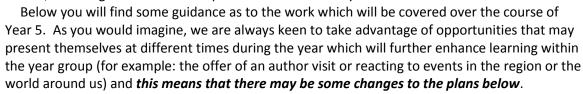
RGS Junior School Year 5 Programmes of Study 2015-2016



"One School, One Team."

Year 5 Programmes of Study.

Welcome to Year 5. This offers a new challenge for all of our students, some moving across from Lambton House into Brandling House, some starting at the RGS for the first time. We hope to make this a year to remember both in and out of the classroom, with a range of activities and events, including the residential trip to Robinwood Activity Centre.





Year 5 English				
	Autumn Term	Spring Term	Summer Term	
Writing	Story planning & writing,	Instructional texts,	Persuasive writing – radio adverts,	
	Developing characters and settings,	Descriptive writing,	Historical event-recount,	
	Descriptive writing,	Non-chronological report –	Extended writing project.	
	Cinquain poems,	comparative,		
	Formal letter writing (persuasive),	Poetry writing (simile quilts),		
	Play scripts.	Story writing,		
		Diary writing.		
Grammar & Language	Revision of punctuation from Y4,	Paragraphs,	Auxiliary verbs,	
	Adjectives & adverbs,	Figurative language (SMOPA),	Main & subordinate clauses,	
	Connectives,	Apostrophes (omission &	Relative clauses,	
	Verbs: function & tenses,	possession),	Prepositions,	
	Standard & non-standard English;	Relative pronouns,	Proof-reading for grammatical	
	Commas in lists and sentences,	Adverbs,	errors.	
	parenthetic commas & commas to	Speech,	Modal verbs,	
	clarify ambiguity.	Singular & plural.	Dashes & brackets.	
Comprehension	Work from selected comprehension text	books.		
	Developing ability to answer questions in	n more detail;		
	Developing skills to answer questions more independently.			
Reading	Independent reading of fiction, non-fiction & poetry books;			
	Group reading in class, including reading	Group reading in class, including reading aloud;		
	Reading for meaning & understanding;			
	Class reading of a variety of different novels.			

Year 5 Maths			
Autumn Term	Spring Term	Summer Term	
Numbers and sequences to 1 million	Multiplication - mental strategies	Types of angles - measuring and calculating	
Place value	Written multiplication and division	Percentages - link to fractions and decimals.	
Ordinal numbers	Using and applying multiplication - calculator	Percentages - relationship to a whole	
Estimating and rounding	Area	Percentages of numbers	
Mental arithmetic skills - doubles & near	Division - short method using remainders	Exam revision as required	
doubles	Rounding after division	Time - 24 hour clock: durations, using and	
Addition of 2/3/4 digit numbers	Fractions - equivalence	applying - time tables	
Subtraction of 2/3/4 digit numbers	Fractions - ordering & comparing	Solving time problems	
Using and applying addition and subtraction	Decimals - + and – mental strategies	Data handling (Tally / Frequency / Bar / Pie	
Length and perimeter	Decimals - standard written method + and –	Charts/ Line)	
Properties of 2 D shapes linked to symmetry	Negative numbers	Using 360° protractors	
Reflective symmetry	Number properties- sequences/ multiples/	Measuring / estimating length	
Multiplication and division using doubles,	factors	Calculate the mean average	
near doubles and halves	Reflective symmetry	Understand and use decimals up to 3 places	
Times tables to 10 x 10, then beyond	Translations using co-ordinates	Write percentages as fractions and fractions	
Know the first 20 prime numbers	Angles - position and movement	as decimals	
Use vocabulary such as primes, prime factors	Fractions - add and subtract those with		
and composite numbers	common denominators		
Understand square and cube numbers	Understand mixed numbers and multiply		
	them by whole numbers		

Year 5 Science			
Autumn Term	Spring Term	Summer Term	
Changing Sounds	Changing State (continued)	Life cycles (continued)	
Sounds are made when objects or materials	Condensation; air contains water vapour and	Parts of the flower; pollination – insect and	
vibrate; vibrations from sound sources travel	when this hits a cold surface it may condense;	wind; fertilisation; seed formation; seed	
through different materials; pitch – how it can	the states of water; the water cycle.	dispersal; the life cycle of a flowering plant;	
be changed; volume – how it can be changed; investigate how to change the pitch and		the life cycle of a butterfly, frog and human; gestation periods; extinction.	
volume of a range of instruments; the speed	Keeping Healthy		
of sound in different materials; the structure	Diet, food nutrition labels; the heart and lungs		
of the ear and how sound is heard; how we	are protected by the ribs; what the heart is	Earth, Sun and Moon	
can protect ears, soundproofing materials;	made from; the role of the heart & blood	Planets in the Solar System; the Sun, Earth	
echoes and echo-location	vessels; pulse rate; we need exercise to stay	and Moon are approximately spherical; the	
	healthy; effects of exercise on pulse rate; how	relative sizes of the Sun, Moon and Earth;	
Gases around us	drugs can affect the way the body functions	distances in space are large; orbits; daytime	
The differences between solids, liquids and	and how these effects can be harmful;	and night-time; why we have seasons; the	
gases – their properties; uses of gases; air has mass and is all around us; the range of gases	medicines; overdose.	Moon; phases of the Moon.	
in air; powders and sponges are solid			
materials with air in the 'gaps' in between;	Life cycles		
measure volumes of water carefully; compare	Types of plant; germination; the functions of		
the air trapped in different materials; fair	the roots, stem and leaves; photosynthesis;		
testing; gases are formed when liquids	, , , , , , , , , , , , , , , , , , , ,		
evaporate; gases flow more easily than liquids			
and in all directions.			
Changing state			
The states of matter reviewed; evaporation;			
everyday examples of 'drying' in terms of			

factors affecting evaporation

Year 5 Geography			
Autumn Term	Spring Term	Summer Term	
Mapwork	<u>USA</u>	<u>Coasts</u>	
6 Figure References	Locate major cities in the USA	Coastal environments	
Using OS Symbols	States of America	What makes a coast?	
Select a map for purpose	Physical features of America	Headlands	
Aerial Maps	Human geography of the USA	Bays	
Scale	Route 66	Erosion of cliffs	
Contours	Independent research into an area of the	Caves, stacks and arches	
Using an Atlas to Find Features	USA	Erosion of the beach	
Time Zones		Sand and shingle	
Latitude and Longtitude		Map work- satellite images	
Physical Geography		Possible activities	
Plate tectonics		Marsden Beach, South Shields	
The Ring of Fire		St Mary's Lighthouse, Whitley Bay	
Volcanoes			
Causes of volcanoes			
Types of volcano			
The characteristics of volcanic activity			
Volcanic eruptions –Kilaueu, Hawaii and			
Mount St Helens, USA			
<u>Earthquakes</u>			
Features of an earthquake			
Chile earthquake, 2010			
Using accounts to find information			

Year 5 French			
Autumn Term	Spring Term	Summer Term	
Numbers 30 to 70,	Telling the time,	Sports & hobbies,	
Parts of the body,	School subjects,	Rooms and furniture in the house.	
Saying how you feel & visiting the doctor.	Daily routines,		
	Cultural awareness.		

Year 5 Computing			
Autumn Term	Spring Term	Summer Term	
Rules of Responsible use of Computers, iPad and the Internet	Reminder of e-safety key messages. Safer Internet Day: Tuesday 9 th February	We are game developers (Programming) -Design and create a computer program for a	
Revision of word processing and e-mail. Pupils are encouraged to work at home to improve their typing skills and speed. Book Creators -Create an e-book using iPad app Book Creator.	How the internet works -Understand how we view web pages on the Internet -Use search technologies effectively. Internet Research Research places to visit (link to Olympics). Email facts and research to friends. Produce website/presentations.	computer game. -Create original artwork and sound for a game. -Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	
-Combine text and graphicsAdd audio to book. We are musicians -Selecting instruments -Recording instruments -Edit the volume/copy/loop/split and edit each individual instrument. We are crytographers Cracking Codes The pupils learn more about communicating information securely through an introduction to cryptography (the science of keeping communication and information secret). They investigate early methods of communicating over distances, learn about two early ciphers, and consider what makes a secure password. E Safety focus in lesson starters using Think U know website. Digital Literacy and Citizenship Strong Passwords Pupils learn how to create secure passwords in order to protect their private information and accounts online. Digital Citizenship Pledge Pupils work together to outline common expectations in order to build a strong digital	All the fun of the fair In this unit the pupils will be making logos; manipulating data in spreadsheets and using Lego WeDo to control fun fair rides. Digital Literacy and Citizenship How to Cite a Site Pupils reflect on the importance of citing all sources when they do research. They then learn how to write bibliographical citations for online sources. You've Won a Prize Pupils learn what spam is, the forms it takes, and then identify strategies for dealing with it.	Digital Literacy and Citizenship Picture Perfect Pupils learn how photos can be altered digitally. They will consider the creative upsides of photo alteration, as well as its power to distort our perceptions of beauty and health.	

Year 5 PDS			
Autumn Term	Spring Term	Summer Term	
Relationships: Managing and maintaining relationships	Health and Wellbeing: Growing and changing	Living in the Wider World: A diverse society	
What is Belief?	Code Breaking: Belief through symbols and stories	What do people believe about God?	

Year 5 Drama			
Autumn Term	Spring Term	Summer Term	
Movement, mime and improvisation Children will continue to build confidence on	Playwriting and Distinguished Actors Children will analyse scripts and identify script	Summer Production Children will work as the 'RGS Theatre	
stage by improvising a range of scenarios.	conventions. They will choose an actor to	Company' in order to collaboratively produce	
They will use their body to show how people	research and make a presentation about their	the school summer production. Alongside their	
move differently and portray a range of characters by using voice and expression.	life. They will share their work with the class and deliver a presentation confidently and	music lessons, children will work in drama lessons to distribute parts, decide on roles and	
They will be able to alter their physicality to	articulately. Children will write a short script	rehearse for the show. They will gain an all-	
show different emotions. Children will build on improvisations to create pieces of drama	for the Sky Blue Theatre Company Playwriting Competition.	round knowledge of people involved in theatre and some students will learn about LFX and	
and devise and perform stories with their	Competition.	SFX in more detail. Others will look at costume	
peers. They will give constructive feedback to	The Victorians (cross curricular with history	and set design; everyone will be involved as a	
their classmates.	topic) Children will use mime to show the job and	team. Children will evaluate their performance and give positive feedback to their peers.	
<u>Television and Film</u>	the conditions of jobs in Victorian times. They	and give positive recassion to their peers.	
Children will devise a simple drama piece or	will identify differences between ways of life		
news report in order to be filmed. They will build on an improvisation with their peers,	at different times and consider the point of view of an audience when presenting a scene.		
thinking about where to move for the	By focusing on tone of voice and posture,		
camera. By using an iPad they will take turns to film and perform.	children will represent status through movement. They will use a script stimulus to		
To gain more understanding, they will identify	create drama and explore possible		
similarities and differences between film/TV	approaches to a script as an actor.		
scripts and theatre scripts. Students will explain why different camera angles may be			
used for different purposes and compare film			
and TV clips.			

Year 5 D & T			
Autumn Term Spring Term Summer Term			
Structures - Musical Instruments	Food Technology - Bread	Textiles - Slippers	

Year 5 History			
Autumn Term	Spring Term	Summer Term	
An Introduction to History	The History of the RGS (Local Study)	The Shang Dynasty of China	
The importance of dates	The founding of the RGS	What was the Shang Dynasty?	
Timelines	What clues are there about the history of the	Archaeological Evidence	
Anachronisms	RGS around us?	Kings of the Dynasty	
Sources - written, images, artefacts, oral	The various sites of the RGS	Royal Tombs	
Being a historical detective	The names of the houses - Collingwood, Eldon,	Fu Hao	
	Horsley and Stowell	Everyday Life	
The Tudors	Key events in the history of the school	Early Writing	
Henry VII	Bessie Surtees	The First Calendar	
The Battle of Bosworth Field	The Victorian era of the RGS	The Zhou Army	
Henry VIII and His Six Wives		The End of the Shang Dynasty	
Lady Jane Grey	The Victorians		
Elizabeth I	Comparing Victorian schooling to now	Possible Activities	
The Spanish Armada	1870 Education Act	Great North Museum, Newcastle	
	Children and Factory Life		
	Possible Activities		
	Walking Tour of Newcastle		
	St Nicholas' Cathedral, Newcastle		
	Bessie Surtees House, Newcastle		
	Beamish Museum, Beamish		

Year 5 Art			
Term	Autumn Term 1	Spring Term 1	Summer Term 1
Topic	Tudor Art	Victorian Art	Drawing Fun through expressionism
Painting		Great artist study: L.S Lowrie	Great artist study: Kandinsky
Drawing	Tudor houses	Great illustrator study: Lewis Carroll Victorian silouhettes	Memory drawings Favourite things Drawing games Pen and ink drawings
Sculpture	Tudor houses		
Textiles	Tudpr Roses		
	Mixed media Kings and Queens Class piece of Henry the 8 th		
Digital Media		William Morris: Moving wallpaper on I can Animate	Drawing on an iPad

Year 5 Music Programme of Study 2015-16				
Autumn Term	Spring Term	Summer Term		
Notation (- introduced and used within the projects as and when it is useful): Symbols used in Y3 and 4, plus: Graphic Scores; notation used on own instruments (- guitar tabs, chord symbols etc)				
Contrasts.	Music round the world.	Preparation of musical play.		
Performances to show a single type of contrast are prepared, then performances based on contrasting poems are created making use of suitable musical contrasts to enhance the mood of the words.	Examples of music from various countries and cultures are heard, sung and played by the class.	Songs are learnt; elements of staging a play explored in detail through examples and own work.		
Musical concepts explored:	 Musical concepts explored: Culture-specific instruments, genres and styles, Call and response, drone, ostinato, ornamentation, Music for specific occasions. 	Musical and dramatic concepts explored:		
Year-Group, whole Y5/6 and congregational carols are learnt.	Graphic Scores.	Performance.		
Developing performance skills: • For a specific place, • For a specific occasion,	Groups will explore Graphic notation through seeing and hearing examples, performing from one, and ultimately composing their own piece notated in this way. "BBC 10 Pieces" resources on Handel's "Zadok the Priest" may be useful supplementary material.	This half term will concentrate on getting the musical play ready for performance, which will include:		
Developing singing skills: • Accuracy,	Musical concepts explored:	 Preparation of props, costumes, posters, programmes, tickets 		

Diagrammatic notations

Structure

Expression,

Physical presentation.

Rehearsal.

Year 5 Physical Education				
Autumn Term	Spring Term	Summer Term		
Gymnastics Development of pair and group routines with acrobatic movements	Basketball Introduction of the game by use of bench ball. Passing techniques and the start of the	Short Tennis Development of game play introducing shot strategies.		
	dribble.	55.5		

Year 5 Games			
Autumn Term	Spring Term	Summer Term	
General Fitness.	Cross-country, long distance, interval training, steps work.	Boys and Girls.	
Boys.		Athletics. The pupils are given more	
Rugby . Handling and running skills, contact, continuity and set piece. Under NROP Girls .	Boys to half term, Girls after half term: Football. The pupils should play games in which they are in established positions	specialised instruction in certain athletic events.	
To half term, netball . Better understanding of	Hockey switch.	Boys.	
High 5, possession, passing, footwork and	Girls.	Cricket. More emphasis on batting and	
shooting.	Netball . Development of skills through play.	bowling technique.	
After half term, hockey . Use of correct	Hockey . Pupils are able to control and choose	Girls.	
footwork, to receive the ball and pass the ball; tackling, shadowing, and safety.	the direction of a push pass. Pupils are able to use their developing dribbling skills to approach players and are aware of the timing	Rounders . More work done with rounders ball with emphasis on fielding and throwing.	
	to beat players.		
	Athletics. Looking at the basics of the run,		
	jump and throw.		

Year 5 Swimming			
Autumn Term	Spring Term	Summer Term	
ASA Personal Survival Level 1	A continuation of:	Further development of:	
stroke development	ASA Personal Survival Level 1	ASA Personal Survival Level 1	
survival skills	stroke development	stroke development	
diving	survival skills	survival skills	
introduction of water polo skills	diving	diving	
starts and turns	introduction of water polo skills	introduction of water polo skills	
speed swimming and endurance swimming	starts and turns	starts and turns	
	speed swimming and endurance swimming	speed swimming and endurance swimming	