

RGS Junior School
Year 6
Programmes of Study
2015-2016



“One School, One Team.”

Year 6 Programmes of Study

Welcome to Year 6. We know that the children are always excited about being the oldest children in the school and we aim to make it a memorable one: as well as a variety of trips, Year 6 become prefects, giving them the chance to take on extra responsibility – and they always rise to the occasion. As the end of the year approaches, we also begin to prepare them for Senior School, with events such as Year 7 students visiting, assemblies and a visit to Senior School.

Below you will find some guidance as to the work which will be covered over the course of Year 6. As you would imagine, we are always keen to take advantage of opportunities that may present themselves at different times during the year which will further enhance learning within the year group (for example: the offer of an author visit or reacting to events in the region or the world around , such as the Olympics and the Jubilee in 2012), and ***this means that there may be some changes to the plans below.***



Year 6 Maths		
Autumn Term	Spring Term	Summer Term
Place value - using and applying Estimation and rounding Special numbers: square, triangular, primes Mental arithmetic skills - + and - Standard written method +, x & – Calculator work 3 digit by 2 digit multiplication Division - short division (by single digit + remainder), 4 digit by 1 digit, 3/4 digit by 2d Decimals - place value and ordering Review: probability, ratio + proportion, vocabulary of 2D and 3D shapes, brackets, frequency tables, interpretation of graphs, perimeter, Venn diagrams Nets of 3D shapes Fractions, equivalence, ordering + and – Surveys: use of graphs, link with computing Decimals Multiplication 1 & 2 decimal points Division by 10/100/1000 and to 1 and 2 decimal places Rounding and estimating Fractions- adding and subtracting BIDMAS / BODMAS.	Percentages - link with fractions/decimals, comparing and ordering Data handling, trend graphs, comparative bar graphs Range, mode, mean and median Spreadsheets Interpretation of a database Frequency tables - class intervals Area - formula Composite shapes Right-angled triangles Volume and capacity - using and applying Co-ordinates with negative values Symmetry, rotation and translation Length, scale, km/m/cm Sequences and patterns Area of a parallelogram Converting between miles and km Calculating volume of 3D Shapes Finding unknowns in algebra. Multiplying and dividing fractions. Create circle poster explaining radius, diameter, circumference, pi and formula for area and circumference.	Review - key skills for SATs using homework sessions and, if needed, class work time. Complete sequences and patterns Formula and equations Time - 12/24 clock, durations, + and – Timetables - using and applying Angles - measuring and calculating Weight - T/kg/g, reading scales Probability testing numbers 1-6/1-10/21 number combinations (ICT- Graphs) Probability testing – graphs and computing-continued. Long division - standard written method. Rate - time, speed and distance Constructing and drawing of angles. Problem solving skills for able and talented Data collecting and handling - road traffic survey and/ or fitness tests. Angles of elevation and scale drawing Compass direction and 3 figure bearings

Year 6 French		
Autumn Term	Spring Term	Summer Term
Food and drink ordering in a café Numbers 70 to 100	Describing appearance Understanding/giving descriptions of others Clothing (including fashion show) Cultural awareness	Places/holidays & booking a holiday Asking for directions

Year 6 English

	Autumn Term	Spring Term	Summer Term
Writing	Story writing: varying style appropriate to the genre; Descriptive Writing; Diary writing; Non-chronological texts; Interviews; Formal letters; Persuasive writing; Leaflets;	Story writing: flashbacks; Discussions; Balanced arguments; Journalistic writing; Instructions; Letter writing; Descriptive writing; Biographies.	Play scripts; Story writing; Revisiting previous styles of writing; Independent, extended writing task.
Grammar & Language	Adjectives and adverbs; Revision of speech; Paragraphing; Commas (inc. parenthetic commas); Revision of apostrophes; Dashes & brackets; Connectives; Formal language; Cohesive devices.	Figurative language; Colons & semi-colons; Active & passive; Synonymns & antonyms; Homophones; Subjunctive; Layout devices; Revisiting previous punctuation.	Using grammar and punctuation within a variety of different writing tasks.
Comprehension	Comprehensions taken from a variety of different text books. Developing the ability to recognize different types of questions and the most effective ways to answer these; Developing skills to answer questions more independently.		
Reading	Independent reading of fiction, non-fiction & poetry books; Group reading in class, including reading aloud from a variety of stimuli, including class novels; Reading for meaning & understanding.		

Year 6 Science

Autumn Term	Spring Term	Summer Term
<p>Interdependence and adaptation Life processes, review of plants, classification, identification keys, food chains, food webs, different animals and plants are found in different habitats, animals and plants are suited to their environment, adaptation to daily and seasonal changes, interdependence between plants and animals, evolution, theories, Darwin</p> <p>(+ Ingram Valley work)</p> <p>Forces in action Gravity, weight and mass, using forcemeters, several forces may act on one object, representing forces by arrows, force experiments, air resistance, floating and sinking.</p>	<p>Changing circuits Symbols for components in circuits, circuit diagrams, the brightness of bulbs, or speed of motors, etc., in a circuit can be changed by changing components in a variety of ways, series and parallel circuits.</p> <p>More about dissolving How do we know a substance has dissolved?, solutions words, factors involved in determining solubility or the speed of dissolving, fair testing and repeating tests, filtering, sieving, describing a scientific process in a series of sequenced steps.</p> <p>Reversible and irreversible changes Mixing materials can cause them to change, some changes that occur when materials are mixed can easily be reversed, some changes that occur when materials are mixed cannot easily be reversed, heating and cooling, burning, assessing hazards and risks in burning materials.</p> <p>Micro-organisms Introduce micro-organisms, disease, food production, decay, food storage, decay can be beneficial, micro-organisms feed and grow.</p>	<p>How we see things Light travels from a source, representing the direction of a beam of light, reflection, shadows, refraction of light, structure of the eye, how we see, pinhole camera, colour – the spectrum, primary colours of light and pigments, filters. Optical illusions.</p> <p>Summer projects.</p>

Year 6 PDS

Autumn Term	Spring Term	Summer Term
Health and Wellbeing: Personal safety and peer pressure	Living in the Wider World: Managing money	Relationships: Sex/health education*
What does it mean to be human?	Putting belief and faith into practice	Religion and Authority

*Please note that a letter giving full details of this part of the programme will be sent home **before** the topic is addressed in lessons.

Year 6 Geography

Autumn Term	Spring Term	Summer Term
<p><u>Mapwork</u> Using Longitude and Latitude Using 6 Figure References Drawing Maps Accurately Using Atlas Symbols Using scale to measure distance Following a route on OS maps</p> <p><u>Rivers</u> Rivers of the World The Water Cycle The River Thames Erosion and deposition River Breamish and the Knockburn Ingram Valley Features of a river Flooding, drought and pollution</p> <p><u>Possible activities</u> River Breamish, Ingram Valley</p>	<p><u>Brazil</u> Welcome to Brazil Physical and human features Climate The Amazon Rainforest Deforestation Life in a Favela Schools in Brazil Living in Brasilia Carnivals Tourism (link to the Rio Olympics 2016)</p>	<p><u>What Are the Seven Wonders of Our World?</u> A project using all the skills they have developed throughout the key stage on the modern wonders of the world.</p>

Year 6 History

Autumn Term	Spring Term	Summer Term
<p><u>Early Islamic Civilisation</u> What is history? Location of Baghdad and the benefits. Comparing Baghdad to the UK. The Round City Architecture The House of Wisdom Ibn Battuta Al Zahrawi and Muslim Medicine The End of the Empire</p>	<p><u>World War 2</u> Timelines Causes of the war Key leaders in World War 2 The Blitz Air raids Air raid shelters- Anderson, Morrison Evacuation Dig for victory</p> <p><u>Possible Activities</u> Victoria Tunnel, Ouseburn Home Farm, Beamish Museum</p>	<p><u>World War 2</u> Women in the War How did the war affect people?</p> <p><u>World War 1 (Centenary Links)</u> Life in the trenches The Battle of the Somme</p> <p><u>Possible Activities</u> CWGC – St Andrew’s Cemetery</p>

Year 6 Drama

Autumn Term	Spring Term	Summer Term
<p><u>Review skills including movement, mime and improvisation</u> Children will continue to build confidence on stage by improvising a range of scenarios. They will use their body to show how people move differently and portray a range of characters by using voice and expression. They will be able to alter their physicality to show different emotions. Children will build on improvisations to create pieces of drama and devise and perform stories with their peers. They will give constructive feedback to their classmates.</p> <p><u>LFX, SFX, costume and props within performance</u> Children will learn about LFX and SFX. They will analyse film clips and identify effects used and give reasons why. Students will explore the use of costume and props and make decisions about which costumes suit the</p>	<p><u>Distinguished playwrights and playwriting</u> Children will analyse scripts and identify script conventions. They will choose a playwright to research and make a presentation about their work. They will share their work with the class and deliver a presentation confidently and articulately. Children will write a short script for the Sky Blue Theatre Company Playwriting Competition.</p> <p><u>Shakespeare</u> Children will analyse an extract of script by Shakespeare and identify differences and similarities in language compared to modern day English. They will explore the themes of a major Shakespearean play and analyse well-known characters. They will reenact and recreate a scene from a Shakespeare play by adapting key themes and plot. The children will direct their classmates in a short scene.</p>	<p><u>Summer Production</u> Children will work as the ‘RGS Theatre Company’ in order to collaboratively produce the school summer production. Alongside their music lessons, children will work in drama lessons to distribute parts, decide on roles and rehearse for the show. They will gain an all-round knowledge of people involved in theatre and some students will learn about LFX and SFX in more detail. Others will look at costume and set design; everyone will be involved as a team. Children will evaluate their performance and give positive feedback to their peers.</p>

<p>personality of different characters. They will broaden their understanding of roles in theatre (costume designer, set designer, technicians, stage manager etc.) and understand what they do.</p>		
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Year 6 Music Programme of Study 2015-16

Autumn Term	Spring Term	Summer Term
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During this year all the work of previous years is reviews and put into practice in larger scale projects. Use of notation, where appropriate, is as in Year 5.

<p>Music and Words 1.</p> <p>In small groups, advertising jingles are composed.</p> <p>Musical concepts explored: All elements of music used to:</p> <ul style="list-style-type: none"> • Match music to item being sold, • Make music appeal to likely buyers, • Make music catchy and memorable. <p>Carol Service preparation.</p> <p>Year-Group, whole Y5/6 and congregational carols are learnt.</p> <p>Developing performance skills:</p> <ul style="list-style-type: none"> • For a specific place, • For a specific occasion, <p>Developing singing skills:</p> <ul style="list-style-type: none"> • Accuracy, • Expression, • Physical presentation. 	<p>Music and Words 2.</p> <p>In small groups, songs are composed to given words based on a theme (eg Carols, Lullabies, Ballads etc.).</p> <p>Musical concepts explored:</p> <ul style="list-style-type: none"> • Melody, rhythm and tempo that reflect the text, • Accompaniment patterns and instruments that suit the text. <p>Ostinato layers</p> <p>Music using repeating rhythmic and melodic patterns are explored. These ideas are used to create pieces representing specific scenes. "BBC 10 Pieces" resources on Stravinsky's "Firebird" finale can be used, leading to creation of music for an important occasion, with Royal fanfares, drums and cymbals.</p> <p>Musical concepts explored:</p> <ul style="list-style-type: none"> • Rhythm, beat and tempo, • Melody, • Timbre. 	<p>Preparation of musical play.</p> <p>Songs are learnt; elements of staging a play explored in detail through examples and own work.</p> <p>Musical and dramatic concepts explored:</p> <ul style="list-style-type: none"> • Music for a specific purpose, • Musical, visual and dance representation of Place, Event and Setting, • Theatre company composition and duties involved. <p>Performance.</p> <p>This half term will concentrate on getting the musical play ready for performance, which will include:</p> <ul style="list-style-type: none"> • Preparation of props, costumes, posters, programmes, tickets • Rehearsal.
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Year 6 Computing

Autumn Term	Spring Term	Summer Term
<p>Rules of Responsible use of Computers, iPad and the Internet. Revision of word processing, printing and sending e-mails.</p> <p>E-mail revision -Sending emails to people in my address book -Adding and receiving attachments.</p> <p>Throughout this term children will practise typing skills in order to improve their speed (wpm). Pupils are encouraged to work at home to improve their typing skills and speed.</p> <p>We are tour guides Creating QR treasure hunts around school for a younger audience. Children will work in small groups to create QR codes and produce clue and answer sheets in Publisher.</p> <p>Manipulating images A unit that investigates impressionistic art and how this style can be recreated using digital art tools. Digital sculpture is also looked at and combined with photo editing.</p> <p>E Safety focus in lesson starters using Think U know website. Digital Literacy and Citizenship Super Digital Citizen Pupils create comic strips showing a digital superhero who witnesses an act of poor digital citizenship, and then helps resolve it.</p> <p>Talking Safely Online Pupils learn that the Internet is a great place to develop rewarding relationships. But they also learn not to reveal private information to a person they know only online.</p>	<p>Reminder of e-safety key messages. Safer Internet Day: Tuesday 9th February Computer Networks -Understand what HTML is and recognise HTML tags. -Know a range of HTML tags and remix a web page.</p> <p>Rio 2016 In this unit the students will be researching the internet; creating a website; designing logos and inputting and manipulating data in spreadsheets.</p> <p>Privacy Rules Pupils learn that children’s websites must protect their private information. They learn to identify these secure sites by looking for their privacy policies and privacy seals of approval.</p> <p>What’s Cyberbullying? Pupils explore how it feels to be cyberbullied, how cyberbullying is similar to or different than in-person bullying, and learn strategies for handling cyberbullying when it arises.</p>	<p>Revision of e-safety rules.</p> <p>Programming Designing own computer games for a younger audience. Children will be using a range of iPad apps as well as the computer program ‘Scratch’.</p> <p>Raspberry Pi:LED light shows A unit to introduce your students to physical computing with a Raspberry Pi. Learn how to build simple circuits with LEDs and program them to create light shows using Scratch GPIO.</p> <p>Selling Stereotypes Pupils explore how the media can play a powerful role in shaping our ideas about girls and boys. They practice identifying messages about gender roles in two online activity zones for children.</p>

Year 6 Physical Education

Autumn Term	Spring Term	Summer Term
<p>Gymnastics: Floor and vault Development of more complex pair and group routines with acrobatic movements</p>	<p>Basketball: Introduction of the game by use of benchball. Passing techniques and the start of the dribble</p>	<p>Short Tennis: Pupils should be able to play and score for themselves and compete at their own levels of ability.</p>

Year 6 Games

Autumn Term	Spring Term	Summer Term
<p>Field run</p> <p>Boys.</p> <p>Rugby. Continuation of skills based on NROP WORK ON EXTRA PLAYER TO BREAKDOWN IN RUCK AND MAUL SITUATION. Continue with handling skills and introduction of kicking.</p> <p>Girls.</p> <p>To half term, netball. Skills and understand the different positions for High 5 and the 7 a side game.</p> <p>After half term, hockey. Pupils have a good understanding of positional play, rules and the 7 a side game.</p>	<p>Cross-country, long distance, interval training, steps work.</p> <p>Boys.</p> <p>Football. The pupils should be able to demonstrate competence when controlling the ball and also be able to show spatial awareness when passing in the game situation. Introduction of Hockey</p> <p>Girls.</p> <p>Netball. Progression from 1st term.</p> <p>Hockey. Concentrate on skills through game play.</p> <p>Athletics. Looking at the basics of the run, jump and throw.</p>	<p>Boys and girls : athletics.</p> <p>Work will be done on the less technical jumping and throwing events (cricket or rounders ball). Different styles and speed of running will be explored as will different jumping techniques. The main thrust will be on the shorter sprint events including relay work.</p> <p>Boys.</p> <p>Cricket. Introduction of hard ball and cricket equipment. Further develop shot making techniques and continued concentration on bowling and fielding.</p> <p>Girls.</p> <p>Rounders. Same progressions and skills as Year 5 begin to explain more complicated rules and organise more appropriate fielding, hitting and catching drills.</p>

Year 6 Swimming

Autumn Term	Spring Term	Summer Term
<p>ASA Personal Survival Level 2 stroke development</p> <p>development of water polo skills</p> <p>starts and turns</p> <p>speed swimming and endurance swimming</p>	<p>Continuation of:</p> <p>ASA Personal Survival Level 2 stroke development</p> <p>diving</p> <p>development of water polo skills</p>	<p>Completion of:</p> <p>ASA Personal Survival Level 2</p> <p>development of water polo skills</p>

Year 6 D&T

Autumn Term	Spring Term	Summer Term
Control Mechanisms – Moving Toys	Food Technology – Pizza	Wood work and control-Controllable vehicles

Year 6 Art

Term	Autumn Term	Spring Term	Summer Term
Topic	Art Movements	Rainforest Art	Portraits and MY project
Painting	Impressionism through Monet	Rainforest animals Painted parrots	
Drawing	Fauvism through Matisse Surrealism through Dali Pointillism through Seurat		Baby portraits
Sculpture		Rainforest tile	Me in a shoebox
Textiles	Cubism collage Art Nouveau	Great artist: Henri Rousseau collage	
Digital Media			Great artist study: Warhol