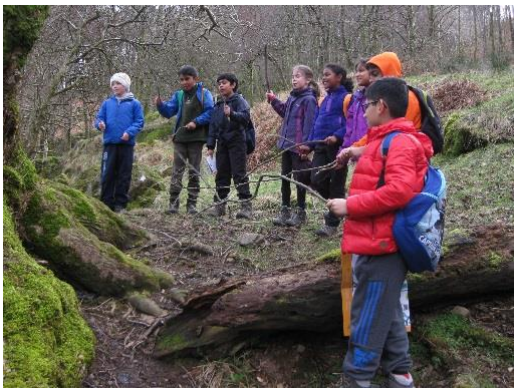
RGS Junior School
Year 4
Curriculum
2020-2021

"One School, One Team."

Year 4 curriculum

Welcome to Year 4. We know that the children are always excited about moving into Year 4 and we aim to make it a memorable year. Throughout the year, we hope to be able to run a variety of trips linked to our history and geography projects, including our residential trip to Patterdale which introduces children to the joys and challenges of outdoor education. In a typical year, they will undertake a couple of extended projects too.



Below you will find some guidance as to the work which will be covered over the course of Year 4. 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, and ***this means that there may be some changes to the plans below***.

Year 4 Maths		
Autumn Term	**Spring Term**	**Summer Term**
Place value, addition and subtraction Multiplication and division 2 digit by 1 digit multiplication Fractions of amounts Time and length, analogue, digital and metric units in decimal notation Formal written methods addition and subtraction, 3 digit by 3 digit Fractions, decimals and addition, simplifying fractions to their simplest form, adding fractions Measures kg, ml conversion, estimating and reading scales Data, bar graphs drawing and interpreting Subtraction, 3 digit numbers with expanded written method, counting up mental method Rounding 4 digit numbers to nearest 10,100,1000 Multiplication, 3 digit by 1 digit using grid method, introduce vertical algorithm Divide 2 digit with 1 digit whole progressing to remainders	Place value, addition and subtraction, 4 digit numbers, round to nearest 10, 100, 1000, mentally add and subtract 3 digit form 4 digit numbers, subtracting 10, 100 from 4 digit numbers Subtraction, 3 digit from 3 digit, 2digit form 3 digit Multiplication, 3 digit by 1 digit Fractions of 2 digit and 3 digit numbers, simplify fractions (halves, thirds, quarters) Double and halve 3-digit numbers by partitioning 2D shapes, properties, symmetry, perpendicular and parallel lines, recognising acute, right obtuse angles Mental calculation strategies, divide 2 digit and 3 digit numbers by 1 digit including remainders Place value, order decimals, multiply decimals by 10, divide 3 digit multiples of ten by 100, add 4 digit numbers using formal written method Perimeters of rectilinear shapes using cm, m Subtraction, 4 digit numbers using partitioning working towards formal column method Multiplication 3 digit by 1 digit using formal written method Factor pairs Measures kg, g, conversion	Place value and decimals, compare 4 digit numbers, write and compare 5 digit numbers, compare negative numbers in context of temperature, multiply numbers by 10 and 100, state numbers to 1 and 2 decimal places, round decimal numbers to nearest whole Multiplication and division, 11x and 12x tables, multiply 2 digit and 3 digit numbers by 1 digit using formal method, investigate inverse operations Roman numerals to 100 History of our number system Area and perimeter of rectilinear shapes 2D and 3D shapes, sort, name and classify, identify regular and irregular polygons, including different quadrilaterals and triangles Decimals, read and write 2 place decimals, add and subtract by 0.1 and 0.01 Fractions, revise equivalent fractions, write fractions with different denominators equivalent to 1, recognise decimal and fraction equivalents Develop mental strategies to solve addition, subtraction, multiplication and division problems Addition and subtraction of 4 digit by 4 digit numbers including money (pounds and pence) using formal written method Draw polygons using coordinates and state new coordinates after translation Draw and interpret bar charts, pictograms and line graphs Multiply 2 digit numbers by 11 and 12, multiply 2 digit numbers by numbers between 10 and 20, divide 2 digit and 3 digit numbers by 1 digit numbers mentally

Year 4 English			
	Autumn Term	**Spring Term**	**Summer Term**
Writing	Retelling a story (salient points); Factual writing – news; Descriptive writing; Story writing (emphasis: plan, draft, revise, present); Story structure; Story beginnings (setting scene, intro character, speech); Writing for specific audience (report writing – project work); Poetry writing (inc: Kennings, Haikus); Writing in response to a variety of stimuli.	Serial story; Letters; Empathy – writing from 2 different viewpoints; Descriptive writing; Story writing (emphasis: plan, draft, revise, present); Story beginnings (setting scene, intro character, speech).	Serial story; Explanatory texts; Writing in response to variety of stimuli; Descriptive writing; Story writing (emphasis: plan, draft, revise, present); Story beginnings (setting scene, intro character, speech); Play scripts; Debate.
Grammar & Language	Capital letters (starting sentences, names, first word line of poetry, first word spoken); Full-stops; Verbs (recognition, verb webs); Adjectival phrases (using & recognising); Adverbs; Expanding noun phrases; Subordinating & co-ordinating conjunctions.	Questions, statements, exclamations; Overused words; Commas in lists; Nouns (proper – recognition); Refining the use of speech marks; Contractions; Apostrophes for contraction & possession; Reversing phrases to make interesting sentence starts; Sentence starters; Conjunctions.	Prepositions; Words instead of said; Prefixes & suffixes; Tenses; Paragraphs; Homophones; Speech; commas to mark clauses; Apostrophes to mark possession, Determiners, Fronted adverbials.
Comprehension	Teacher produced worksheets; Work from selected comprehension text books.		
Reading	Independent reading of fiction, non-fiction & poetry books; Reading aloud from a variety of different class reading books; Reading for meaning & understanding. (The Lion, The Witch & The Wardrobe, Kensuke's Kingdom, Charlotte's Web)		

Year 4 Science		
Autumn Term	**Spring Term**	**Summer Term**
Moving and growing Characteristics of bones as materials; identifying bones; the human skeleton – naming bones, looking at x-rays; functions of the skeleton – movement, protection, support; different types of joint in the human skeleton; vertebrates & invertebrates; growth – which bones grow the most/least; body measurements – e.g. height, head circumference, forearm length – comparing and graphing data. **Circuits and conductors** Simple circuits, names of components, using symbols to represent components in circuit diagrams, drawing circuit diagrams, looking for mistakes in circuits; how a bulb works – the filament; switches in circuits – constructing switches; mains & battery electricity, safety with electricity; matching components in a circuit; conductors and insulators of electricity.	**Keeping warm** Measuring temperature, using a Celsius thermometer, reading scales on different types of thermometer; predicting temperatures; measuring temperatures in the classroom, temperatures on weather maps; how to keep cold things cold; how to keep hot things hot; conductors and insulators of heat. **Habitats** Identifying similarities and differences between living things, vertebrates and invertebrates, using simple keys to identify plants and animals – branching keys, statement keys; habitats – what conditions do organisms prefer?; minibeasts; food chains; the effect of changing a habitat.	**Friction** Review forces – pushes and pulls, magnets; using forcemeters to measure force, units of measurement for force – newtons (N); friction as a stopping force – investigating the effect of different surfaces of friction, fair testing, representing and comparing data; examples of high and low friction, air resistance – investigating the effect of surface area on air resistance; water resistance – streamlining. **Solids, liquids and how they can be separated** Ideas about solids and liquids; the properties of solids and liquids (do they flow, can they be squashed, their volume & shape); accurate measurement of volume of a liquid; melting and freezing – wax and ice; melting metals; separating materials – sieving, filtering; dissolving

Year 4 Geography		
Autumn Term	**Spring Term**	**Summer Term**
<u>Map work</u> Using an atlas Using the compass rose 4 Figure Coordinates OS Symbols Continents Biomes Aerial photography <u>Mountains</u> Locating mountain ranges UK mountains Features of mountains How mountains are made Mountain climates Mountain travel	<u>Europe</u> Locate Countries of Europe and identify their flags Capital Cities Key European landmarks European rivers <u>Exploring Scandinavia</u> Countries of Scandinavia Locate Scandinavia on a map Main cities, mountains and rivers of Scandinavia Climate and weather Human geography of the area Scandinavian culture	<u>The Environment</u> How people affect the environment What is the environment like in school? Pollution Waste and recycling Positive and negative features of an environment Sculptures and effect on area How can the environment be managed and sustained

Year 4 History		
Autumn Term	**Spring Term**	**Summer Term**
<u>Ancient Egypt</u> Locating Ancient Egypt in a time place The Nile and farming Pyramids Pharaohs Primary sources Tutankhamun Mummification Gods and the Afterlife Hieroglyphs	<u>Ancient Greeks</u> Where is Greece? Knowing the difference between Ancient and modern Greece A timeline of Ancient Greece Theatre in Ancient Greece Gods and Goddesses Myths- the labyrinth, the Trojan War Greek Warfare- the battle of Marathon Athens and Sparta The Olympic Games Famous Greeks Democracy Ancient Greek pottery	<u>Anglo Saxons</u> Why the Anglo Saxons came and who they were. Reasons for Saxon settlements Farming Sutton Hoo Monks and monasteries – Bede Illuminated text <u>Vikings</u> Reasons for invasion Travel and ships Towns and settlements- place names Runes Lindisfarne

Year 4 Spanish		
Autumn Term	**Spring Term**	**Summer Term**
Introduction to Spain and Spanish speaking countries Basic greetings Feelings Numbers 0 to 15	Classroom instructions Pets Colours Describing animals Fruit	Revision of fruit Days of the week Other food and drink

Year 4 PSHE/Religious Education		
Autumn Term	**Spring Term**	**Summer Term**
Living in the Wider World Becoming a class 'Team' Being a school citizen Rights, responsibilities and democracy Rewards and consequences Our learning charter **Religion**: Christianity **Theme**: Christmas/Incarnation **Key Question**: What is the most significant part of the nativity story for Christians today?	**Relationships** Judging by appearances Understanding influences Understanding bullying Problem solving Special me How we look **Religion**: Buddhism **Theme**: The 8-fold path **Key Question**: What is the best way for a Buddhist to lead a good life?	**Health and Wellbeing** Relationship web Love and loss Memories Are animals special? Special pets **Religion**: Judaism **Theme**: Beliefs and Practices **Key Question**: What is the best way for a Jew to show commitment to God?

Year 4 Drama		
Autumn Term	**Spring Term**	**Summer Term**
Improvisation and Mime Roald Dahl	Midsummer Night's Dream An introduction to Greek theatre and myths	Saxons/BBC Audio Sutton Hoo Bringing Fairy Tales to life

Year 4 Computing		
Autumn Term	**Spring Term**	**Summer Term**
Rules of Responsible use of computers, iPad and the Internet. **Digital Learning Acceptable User Agreement** **Revision of Office 365** Recap on how to send emails and reminders how to use Office 365. ***All pupils need Teams and Office Lens downloaded on a device at home please.*** **Teams** Recap how to receive calls in Teams. Introduction to Class Notebook within Teams. Pupils will learn how to add text, images, drawings, photographs, screen shots to their work in Class Notebook. **Touch Typing** BBC Dance Mat revision from Year 3 and other typing games. **Computational Thinking** Throughout this term, we will also focus on computational thinking skills in lessons, in preparation for the Bebras competition in November. **Animation** In this unit the pupils are taught the basic principles and techniques of simple animation. Beginning with the history of animation, pupils research some of the early animation techniques used before the use of computers. Pupils make their own animations. **Digital safety focus in lesson starters using Think U know Cyber Café and Net Smartz.** **Digital safety focus:Privacy and Security**	**Reminder of digital safety key messages.** **Safer Internet Day will be on the 9th February 2021 in the UK with the theme: An internet we trust - exploring reliability in the online world.** **The Zoo** This project includes activities using: - Google Earth to explore zoos around the world - Creating a conservation campaign -Digital art and data handling. **Machines and mechanisms: All the Fun of the Fair** In this unit the pupils will be making logos; manipulating data in spreadsheets and use Lego WeDo to build and control fun fair rides. **Digital safety focus: Managing Online Information** **Digital safety focus: Copyright and Ownership**	**We are software developers (Programming)** -Design and write programs that accomplish specific goals. -Solve problems by decomposing them into smaller parts. -Use sequence and repetition in programs. -Use logical reasoning to predict how simple algorithms work. -Create simple games within Scratch -Utilise a variety of iPad programming apps. **Comic Creators** -Plan a class comic. -Create a class comic, using iPad apps about Year 4. -Change the appearance of text to increase its effectiveness. **Digital safety focus: Health, Well-being and Lifestyle**

Year 4 D&T		
Autumn Term	**Spring Term**	**Summer Term**
Food Technology – Super Salads **Food Technology** – Christmas Biscuits	**Structures** – Photograph Frames **Textiles -**Easter Baskets	**Control**- Electrical – Alarms/ Lighting it up **Structures**-Shelters

Year 4 Music		
Autumn Term	**Spring Term**	**Summer Term**
Transport and being transported Using a poem as inspiration, children will revise their understanding of sonority and will learn how to devise and create a graphic score to represent the sound effects in the poem. The score will reflect dynamics and frequency of sound. They will perform their compositions in their groups and evaluate performances. Using Mozart's *Sleigh Ride K605 No.3,* children will further their understanding of instruments of the orchestra as well as build on their knowledge of note values from last year. They will also learn about musical structure. Musical concepts explored: • Revision of note values- semibreve, dotten minim, minim, crotchet, semibreve, crotchet rest, 2/4 and 3/4 time signatures and notes on a stave. The semiquaver and semibreve rest will be introduced. • Composition and notation **Carol Service preparation.** As well as traditional congregational carols, songs and words for a Year 3 and 4 Carol Concert will be learnt. Developing performance skills: • For a specific place, • For a specific occasion, Developing singing skills: • Accuracy, • Expression, • Physical presentation.	**Notation and Performance** Using the recorder, children will study standard notation. They will focus on producing a good sound, maintaining the beat, accuracy, ensemble playing and performing to an audience. **Music Technology** Isle Of Tune app used to reinforce understanding of note values and to compose ostinato rhythms. Musical concepts explored: • Crotchet, quaver, minim, semibreve, crotchet rest, treble clef pitches, stave, bar, barline, repeat mark, 4/4 and 3/4 time signatures • Performance • Ensemble playing	**Musical Stimuli** Using Saint-Saens 'Carnival of the Animals' children will build on their understanding of water as a musical stimulus from last year and learn how animals and their characters can inspire music. Children will consider sonority and the best ways to portray an animal in their own compositions, considering the animal's size, shape and special characteristics. Musical concepts explored: • Melody, sonority, tempo, dynamics and rhythm: chosen, combined and developed to reflect time, place, mood, events and personality. • Structure – Ternary (ABA), AB/AB • Notation – graphic and standard

Year 4 Art						
Term	**Autumn Term 1**	**Autumn Term 2**	**Spring Term 1**	**Spring Term 2**	**Summer Term 1**	**Summer Term 2**
Topic	Architecture	Indian Art	Greek Art and serial story	Egyptian Art	Recycled Art	Landscapes
Painting	Taj Mahal Watercolour	Carnival elephant mixed paper collage	Greek pots	Pyramid Silhouettes		Great Artist study: David Hockney observations
Drawing	RGS pencil sketch Saint Basil's Cathedral	Scratch art henna hands Rangoli patterns Christmas card Calendar piece	Serial story Castle illustrations Map Making	Egyptian Portraits Sarcophagus Design		Worm's Eye View
Sculpture	Angle of the North	Diwali diyas	Greek masks	Scarab Beetles	Recycled sculpture	Cityscapes
Textiles		Artist study: Bhaiti Kher			Torn magazine art Loom Weaving	
Art Appreciation		Johannes Vermeer	Botticelli			

Year 4 Games		
Autumn Term	**Spring Term**	**Summer Term**
General fitness. **Boys.** **Cricket**: Introduction to basic fundamentals of catching, throwing, fielding and striking. Introduction to bowling action. Introduction to game play and decision making. **Rugby**. Introduce the game of rugby through contact. Ball familiarisation. Focus on basic catching, passing, traveling and invasion. **Girls**. **Hockey**. Understanding of basic passing techniques, rules of the game through play. **Football.** Ball familiarization, simple passing, shooting and dribbling skills	Cross-country, long distance, interval training, steps work. **Boys**. **Football**. Ball familiarization, simple passing, shooting and dribbling skills. Identification of space and control through small sided games. Basic understanding of positional play. **hockey**. Understanding of basic control, passing and dribbling techniques, rules of the game through play. **Girls.** **Netball**. Sending and receiving, maintaining possession. Positional and invasion play through games. Development of technique.	**Boys and Girls.** **Athletics**. Introduction to different running, jumping and throwing events. **Boys and Girls.** **Cricket** Developing the fundamentals of catching, throwing, fielding and striking. Introduction to game play and decision making.

Year 4 Physical Education		
Autumn Term	**Spring Term**	**Summer Term**
Fundamental skills Introduction to functional movement. Every lesson will allow children to develop their locomotion, manipulation and stabilisation skills (fundamental movement skills) Lesson focus on agility, balance, speed, strength and coordination. **Gymnastics.** Basic shapes, jumps, rolls. Body control. Sequencing, vaulting, strength work.	**Dance** Perform dances using a range of movement patterns. Learn and create dance routines. House dance competition. **Ball skills** Focus on ball familiarisation. Develop catching, passing, dribbling and striking. Introduction to invasion, game play and positioning	**Athletics** Developing skills in a variety of jumps, runs, throws focussing on correct technique and fundamentals. **Short tennis**: Familiarisation of racket, grip and balance Emphasis on basic stroke play.

Year 4 Swimming		
Autumn Term	**Spring Term**	**Summer Term**
Stroke development and work on diving.	A continuation of: Water skills Personal survival skills Stroke development Stamina work	Development of performance swimming for some and stoke development for others.