



The Greneway School



The National Curriculum

A Guide For Year 5 Parents



ROYSTON SCHOOLS ACADEMY TRUST



Introduction

For generations, parents have found themselves visiting primary schools with their children only to hear themselves saying, “It’s not like when I was at school.” Things change quickly in education, and at no time in the past 25 years has that been truer than September 2014 when the whole school curriculum changes for maintained schools throughout England.

This guide provides an outline of typical content from Year 1 to Year 6 and some background information about how the curriculum and assessment works, hopefully it will help parents support their children in making the most of their time at Greneway.

What’s changed?

English, Maths and Science remain very important and are considered the core subjects in schools education. The National Curriculum sets out in some detail what must be taught in each of these subjects, and they will take up a substantial part of your child’s learning week. Alongside these are the familiar foundation subjects: Art, Computing, Design & Technology, Foreign Languages (age 7+ only), Geography, History, Music, and Physical Education. For these foundation subjects, the details in the curriculum are significantly briefer: schools have much more flexibility regarding what they cover in these subjects.

Much of the publicity about the changes to the curriculum has focussed on ‘higher expectations’ in various subjects, and it is certainly the case that in some areas the content of the new primary curriculum is significantly more demanding than in the past. For example, in Mathematics there is now much greater focus on the skills of arithmetic and also on working with fractions. In Science, a new unit of work on evolution is introduced for Year 6; work which would have previously been studied in secondary school. In English lessons there will now be more attention paid to the study of grammar and spelling; an area which was far less notable in previous curricula.

The new curriculum began in schools from September 2014. However, for children in Year 2 and Year 6, the new curriculum won’t become statutory until 2015. This is because these children are in the last year of the Key Stages. At this age, children are formally assessed to judge their progress against the requirements of the curriculum. Because the 2014 curriculum will only have been in place for nine months, these children will be assessed against the requirements of the old curriculum in the National Curriculum Tests. New tests will be produced for the summer of 2016 to assess work from the new curriculum.

High Achievers

If your child is achieving well, rather than moving on to the following year group's work many schools will encourage more in-depth and investigative work to allow a greater mastery and understanding of concepts and ideas.

Tests your child will take

At Greneway a range of assessments are used to support pupil progress. For the most part, these are part of a normal classroom routine, and support teachers' assessment. However, at certain stages of schooling there are also national tests which must be taken by all children in state schools. Often informally known as 'SATs', the National Curriculum Tests are compulsory for children at the end of Year 2 and Year 6. Children in these year groups will undertake tests in Reading, Mathematics, and Grammar, Punctuation & Spelling. The tests will be sent away for marking, and results will be reported to parents at the end of the year.

At Greneway, pupils in Year 5 are regularly assessed and we also use Cognitive Ability Tests (CATs) in September.

Where previously these tests – and other teacher assessments – were graded in levels (normally numbering between Level 1 and Level 6 in primary school), from 2016 the tests will be reported as a scaled score, with a score of 100 representing the expected level for each age group. It will be up to teachers and schools to decide how to measure progress in the intervening years. This information will be reported to parents alongside an end of year report which will outline strengths and areas for development in a wide range of subjects and contexts.

The tests will be used, along with information gathered from your child's KS2 tests, and other relevant information we have received from their previous school, to identify your child's potential and to inform our targeted intervention strategies.

The new national curriculum – Mathematics in Year 5

During the years of upper Key Stage 2 (Year 5 and Year 6), children use their knowledge of number bonds and multiplication tables to tackle more complex problems, including larger multiplication and division, and meeting new material. In Year 5, this includes more work on calculations with fractions and decimals, and using considerably larger numbers than previously.

Number and Place Value

- Recognise and use the place value of digits in numbers up to 1 million (1,000,000)
- Use negative numbers, including in contexts such as temperature
- Round any number to the nearest 10, 100, 1,000, 10,000 or 100,000
- Read Roman numerals, including years

Calculations

- Carry out addition and subtraction with numbers larger than four digits
- Use rounding to estimate calculations and check answers are of a reasonable size
- Find factors of multiples of numbers, including finding common factors of two numbers
- Know the prime numbers up to 19 by heart, and find primes up to 100
- Use the standard methods of long multiplication and short division
- Multiply and divide numbers mentally by 10, 100 or 1,000
- Recognise and use square numbers and cube numbers

Factors are numbers which multiply to make a product, for example 2 and 9 are factors of 18. Common factors are numbers which are factors of two other numbers, for example 3 is a factor of both 6 and 18.

Fractions and Decimals

- Put fractions with the same denominator into size order, for example recognising that $\frac{3}{5}$ is larger than $\frac{2}{5}$
- Find equivalents of common fractions
- Convert between improper fractions and mixed numbers, for example recognising that $\frac{5}{4}$ is equal to $1\frac{1}{4}$
- Add and subtract simple fractions with related denominators, for example
$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$
- Convert decimals to fractions, for example converting 0.71 to $\frac{71}{100}$
- Round decimals to the nearest tenth
- Put decimals with up to three decimal places into size order
- Begin to use the % symbol to relate to the ‘number of parts per hundred’

In a fraction, the numerator is the number on top; the denominator is the number on the bottom.

Measurements

- Convert between metric units, such as centimetres to metres or grams to kilograms
- Use common approximate equivalences for imperial measures, such as 2.5cm = 1 inch
- Calculate the area of rectangles using square centimetres or square metres
- Calculate the area of shapes made up of rectangles
- Estimate volume (in cm^3) and capacity (in ml)

Shape and Position

- Estimate and compare angles, and measure them to the nearest degree
- Know that angles on a straight line add up to 180° , and angles around a point add up to 360°
- Use reflection and translation to change the position of a shape

Graphs and Data

- Read and understand information presented in tables, including timetables
- Solve problems by finding information from a line graph

At Greneway children in Year 5 are streamed into ability groups to allow them to work confidently at their own level.

Parent Tip

Much of the knowledge in Year 5 relies on number facts being easily recalled. For example, to find common factors or to make simple conversions, knowledge of multiplication tables is essential. Any practice at home to keep these skills sharp will certainly be appreciated by your child's class teacher!

The new national curriculum – Science in Year 5

As children get older, they begin to meet more abstract concepts in science – things which are not so easily tested in the classroom, such as the bodies of the solar system, or changes of state. They will continue to carry out experiments but may also use more secondary resources for research or investigation.

Scientific Investigation

Investigation work should form part of the broader science curriculum. During Year 5, some of the skills your child might focus on include:

- Plan different types of scientific investigation, including controlling variables
- Take measurements with increasing accuracy and precision
- Record data and results using diagrams, labels, keys, tables and graphs
- Use test results to make predictions and to set up more testing
- Identify the evidence that has been used to support or refute ideas 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 processes of reproduction in some plants and animals

Life cycles include different stages for the main vertebrate groups, such as eggs, larvae and pupae. These can be seen in tadpoles and frogs, caterpillars and butterflies, and of course the chicken and the egg.

Properties and Changes of Materials

- Compare the various properties of materials such as hardness, solubility and conductivity
- Use knowledge of solids, liquids and gases to separate mixtures and solutions through filtering or evaporation
- Know that dissolving, mixing and changes of state are reversible changes
- Know that some changes cannot be reversed, such as burning, rusting or chemical reactions

Earth and Space

- Describe the movement of the planets, including Earth, around the Sun
- Describe the movement of the Moon around the Earth
- Use these ideas to explain how day and night occur, and why the Sun appears to move across the sky

Since 2006, scientists have defined Pluto as only a dwarf planet. Consequently, children are now taught that there are only eight planets orbiting the Sun (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune), although many will also explain the history of Pluto's past.

Parent Tip

Plenty of exciting experiments can take place at home looking at reversible and irreversible changes. Try searching online for the 'vinegar bomb' experiment, or the now-famous 'Coke and Mentos' experiment.

The new national curriculum – English in Year 5 and Year 6

In upper Key Stage 2 your child will increasingly meet a wider range of texts and types of writing, and will be encouraged to use their skills in a broader range of contexts. Their knowledge of grammar will also increase as they prepare for the new National Curriculum Tests to be taken in the summer term of Year 6.

Year 6 children will take a reading test of about one hour, a grammar and punctuation test of about forty-five minutes, and a spelling test of twenty words. These will be sent away for marking, with the results coming back before the end of the year. Your child's teacher will also make an assessment of whether or not your child has reached the expected standard by the end of the Key Stage.

Speaking and Listening

The Spoken Language objectives are set out for the whole of Key Stage 1 and 2, and teachers will cover many of them every year as children's spoken language skills develop. In Years 5 and 6, some focuses may include:

- Speak clearly in a range of contexts, using Standard English where appropriate
- Monitor the reactions of listeners and react accordingly
- Consider different viewpoints, listening to others and responding with relevant views
- Use appropriate language, tone and vocabulary for different purposes

Reading Skills

- Read a wide range of fiction, non-fiction, poetry, plays and reference books
- Learn a range of poetry by heart
- Perform plays and poems using tone, volume and intonation to convey meaning
- Use knowledge of spelling patterns and related words to read aloud and understand new words
- Make comparisons between different books, or parts of the same book
- Read a range of modern fiction, classic fiction and books from other cultures and traditions

Themes & Conventions

As children's experience of a range of texts broadens, they may begin to notice conventions, such as the use of first person for diary-writing, or themes such as heroism or quests.

- Identify and discuss themes and conventions across a wide range of writing
- Discuss understanding of texts, including exploring the meaning of words in context
- Ask questions to improve understanding of texts
- Summarise ideas drawn from more than one paragraph, identifying key details
- Predict future events from details either written in a text or by 'reading between the lines'
- Identify how language, structure and presentation contribute to meaning
- Discuss how authors use language, including figurative language, to affect the reader
- Make book recommendations, giving reasons for choices
- Participate in discussions about books, building on and challenging ideas
- Explain and discuss their understanding of reading
- Participate in formal presentations and debates about reading
- Provide reasoned justifications for views

Figurative language includes metaphorical phrases such as 'raining cats and dogs' or 'an iron fist', as well as using language to convey meaning, for example by describing the Sun as 'gazing down' upon a scene.

Writing Skills

- Write with increasing speed, maintaining legibility and style
- Spell some words with silent letters, such as knight and solemn
- Recognise and use spellings for homophones and other often-confused words from the Y5/6 list
- Use a dictionary to check spelling and meaning
- Identify the audience and purpose before writing, and adapt accordingly
- Select appropriate grammar and vocabulary to change or enhance meaning
- Develop setting, atmosphere and character, including through dialogue
- Write a summary of longer passages of writing
- Use a range of cohesive devices

Cohesive devices are words or phrases used to link different parts of writing together. These may be pronouns such as 'he' or 'it' to avoid repeating a name, or phrases such as 'After that...' or 'Meanwhile' to guide the reader through the text.

- Use advanced organisational and presentational devices, such as bullet points
- Use the correct tense consistently throughout a piece of writing
- Ensure correct subject and verb agreement
- Perform compositions using appropriate intonation, volume and movement
- Use a thesaurus
- Use expanded noun phrases to convey complicated information concisely
- Use modal verbs or adverbs to indicate degrees of possibility
- Use relative clauses
- Recognise vocabulary and structures that are appropriate for formal use
- Use passive verbs to affect the presentation of information
- Use the perfect form of verbs to mark relationships of time and cause

- Recognise the difference in informal and formal language
- Use grammatical connections and adverbials for cohesion
- Use ellipses, commas, brackets and dashes in writing
- Use hyphens to avoid ambiguity
- Use semi-colons, colons and dashes between independent clauses
- Use a colon to introduce a list
- Punctuate bullet points consistently

Grammar Help

For many parents, the grammatical terminology used in schools may not be familiar. Here are some useful reminders of some of the terms used:

- **Noun phrase:** a group of words which takes the place of a single noun. Example: The big brown dog with the fluffy ears.
- **Modal verb:** a verb that indicates possibility. These are often used alongside other verbs. Example: will, may, should, can.
- **Relative clause:** a clause which adds extra information or detail. Example: The boy who was holding the golden ticket won the prize.
- **Passive verb:** a form of verb that implies an action being done to, rather than by, the subject. Example: The boy was bitten by the dog.
- **Perfect form:** a form of verb that implies than an action is completed. Example: The boy has walked home.

Parent Tip

As children get older, they will increasingly take responsibility for their own work and homework tasks. That's not to say that parents can't help though. Encourage your child to work independently on their homework, but also take the opportunity to discuss it with them and to have them explain their understanding to you.

The new national curriculum – The Foundation Subjects

Foundation subjects, at Greneway, play a key part in providing a broad and balanced curriculum. All eight of these subjects are a compulsory part of the National Curriculum. In addition, all schools are required to include some Religious Education in their broader curriculum, although the content of this is agreed locally.

Here is a very brief outline of what will be covered in the foundation subjects:

Art

Children will explore a range of different techniques such as drawing, painting and sculpture, and will use a variety of materials, from pencil and paint to charcoal and clay, to create their own art pieces. In addition, during Key Stage 2, children will study the works of some great artists, architects and designers from history.

Computing

There are three main strands of the new Computing curriculum: information technology, digital literacy and computer science.

Information technology is about the use of computers for functional purposes, such as collecting and presenting information, or using search technology. Digital literacy is about the safe and responsible use of technology, including recognising its advantages for collaboration or communication. Finally, computer science will introduce children of all ages to understanding how computers and networks work. It will also give all children the opportunity to learn basic computer programming, from simple floor robots in Years 1 and 2, right up to creating on-screen computer games and programmes by Year 6. Many schools will use programming software which is freely available online, such as Scratch or Kodu.

We regularly include regular teaching of e-safety to ensure that children feel confident when using computers and the Internet, and know what to do if they come across something either inappropriate or uncomfortable.

Design and Technology

This subject includes practical food lessons and nutrition, with children finding out about a healthy diet and preparing simple meals. It also includes the more traditional design elements in which children will design, make and evaluate products while learning to use a range of tools and techniques for construction. There are clear links with Science as children incorporate levers, pulleys or electrical circuits into their designs for finished products.

Geography

In Key Stage 1, children will learn the names of the continents and oceans as well as the names of the four home nations and their respective capital cities. They will use the four main compass directions and simple maps and photographs to explore the local area.

In Key Stage 2, the children will extend their knowledge and understanding beyond the local area by locating the world's countries on a variety of types of maps. They will focus on the UK, Europe, Russia and the Americas, exploring environmental regions (for example, banana growing in St Lucia), significant physical and human characteristics and major cities. They will begin to explore features such as mountain environments, land use, trade links, coasts and rivers, and how these change over time. They will also develop their mapping skills by learning to use grid references and digital Ordnance Survey maps to describe locations, making keys and symbols and measuring distances on maps.

History

In Key Stage 1, the focus of history is very much on locally significant events or events within their own memories, as well as key events of great significance such as Bonfire Night. In addition, children will find out about important historical people and events, such as Florence Nightingale or The Great Fire of London.

In Key Stage 2, there are nine main areas of study that are required, some of which have optional strands. The first four are units relating to British history and are intended to begin the development of a clear chronological understanding. During Year 5 pupils study the events of World War II and the impact on the local area, the wonders of Ancient Egypt and Life for the Tudor rich and poor

Languages

At Greneway, French is taught throughout the four years and Spanish in Year 7 & 8. Children will be expected to make good progress in the main language, learning to ask and answer questions, present ideas to an audience both in speaking and writing, read a range of words, phrases and sentences, and write simple phrases, sentences and descriptions. Children will also learn about the appropriate intonation and pronunciation of the language.

Music

During both key stages children will listen to and perform a range of music. In the first years of schooling this will often include singing songs and rhymes, and playing un-tuned instruments such as tambourines or rainmaker sticks.

In Key Stage 2, children will perform pieces both alone and as part of a group using their own voice and a range of musical instruments, including those with tuning such as glockenspiels or keyboards. They will both improvise and compose pieces using their knowledge of the different dimensions of music such as rhythm and pitch. During the later years they will also begin to use musical notation, and to learn about the history of music.

Physical Education

Key Stage 1: Physical Education lessons will continue to develop physical literacy and will include a range of individual disciplines such as dance and athletics, with team sports and games. Through these sports, children should learn the skills of both cooperation and competition.

Developing physical literacy continues to be central during Key Stage 2. The range of activities taught is broader, and the children will also take part in outdoor and adventurous activities such as orienteering. They will perform dances, take part in athletics and gymnastics, and attempt to achieve personal bests in various activities.

In addition, all children have swimming throughout their time at Greneway.

For more information on the National Curriculum please visit

www.gov.uk/government/collections/national-curriculum