



Mathematics at St Gregory's

Nursery Maths – What Your Child Will Learn and How You Can Help

Term	What children will learn in school	How parents can help at home
Autumn	<ul style="list-style-type: none"> • Begin counting objects in everyday play • Sing number songs and rhymes • Recognise small numbers (up to 3) • Compare quantities using language such as <i>more</i> and <i>less</i> • Explore shape through building and puzzles 	<ul style="list-style-type: none"> • Count toys, snacks or steps together • Sing number songs (e.g. <i>Five Little Ducks</i>) • Use number words naturally in conversation • Talk about which group has more or fewer • Encourage sorting toys by shape or size
Spring	<ul style="list-style-type: none"> • Count reliably up to 5 • Recognise numbers in the environment • Explore addition and subtraction through play • Begin understanding part-whole (breaking groups apart) • Explore size, length and capacity 	<ul style="list-style-type: none"> • Count small groups of objects together • Share snacks and talk about equal amounts • Use language such as <i>full, empty, big, small</i> • Encourage number spotting (doors, buses, books) • Let your child help with pouring or filling containers
Summer	<ul style="list-style-type: none"> • Count with increasing confidence • Recognise some numerals • Explore pattern and repeated actions • Engage in simple problem-solving through play • Begin to explain their thinking using number language 	<ul style="list-style-type: none"> • Continue counting in everyday routines • Play simple turn-taking games • Talk about patterns (colours, actions, routines) • Ask “How many?” during play • Praise effort, not accuracy

Our Maths Approach

We help children: Understand numbers deeply Use correct maths language
 Explain their thinking Learn through play and real-life situations

Children are **not rushed** secure understanding is more important than speed. If you ever have questions, please speak to your child's teacher — we are always happy to help and share ideas to support learning at home.



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Reception Maths – What Your Child Will Learn and How You Can Help

Term	What children will learn in school	How parents can help at home
Autumn	<ul style="list-style-type: none">• Count confidently to 10 and beyond• Recognise and represent numbers 1–10• Understand that numbers are made of smaller parts (part–part–whole)• Compare quantities (greater than / less than)• Explore shape and pattern	<ul style="list-style-type: none">• Count objects accurately together• Ask “How many are there now?”• Play board games using dice or spinners• Look for numbers around the home• Talk about shapes you see
Spring	<ul style="list-style-type: none">• Add and subtract small numbers• Understand zero• Explore doubling and sharing fairly• Begin number bonds to 5 and 10• Measure length, weight and capacity	<ul style="list-style-type: none">• Practise adding or taking away small groups• Share food or toys equally• Use language such as <i>double</i> and <i>half</i>• Measure ingredients when cooking• Ask children to explain their thinking
Summer	<ul style="list-style-type: none">• Solve simple mathematical problems• Count beyond 20 and recognise patterns• Explore early multiplication and division through grouping• Recognise and create repeating patterns• Prepare for transition into Year 1 maths	<ul style="list-style-type: none">• Encourage grouping objects (pairs, groups of 5)• Count in 2s, 5s and 10s together• Talk about time in daily routines• Ask reasoning questions (“How do you know?”)

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Year 1 Maths – What Your Child Will Learn and How You Can Help

Term	What children will learn in school	How parents can help at home
Autumn	<ul style="list-style-type: none"> • Count, read and write numbers to 10 and beyond • Understand place value (tens and ones) within 20 • Add and subtract numbers within 10 • Use part-whole models and number bonds • Recognise and describe 2D and 3D shapes 	<ul style="list-style-type: none"> • Practise counting everyday objects (toys, steps, fruit) • Ask “one more” or “one less” questions • Play number games such as dominoes or dice games • Talk about shapes you see at home • Encourage children to explain how they worked something out
Spring	<ul style="list-style-type: none"> • Add and subtract numbers within 20 • Understand place value within 50 • Measure and compare length and height • Measure and compare weight and volume • Use correct maths vocabulary 	<ul style="list-style-type: none"> • Practise simple adding and subtracting using objects • Measure items using hands, cups or spoons • Compare objects (longer/shorter, heavier/lighter) • Encourage counting forwards and backwards • Praise effort and thinking, not speed
Summer	<ul style="list-style-type: none"> • Begin multiplication and division through grouping and sharing • Understand halves and quarters • Understand place value within 100 • Use money (coins and notes) • Tell the time to the hour and half hour 	<ul style="list-style-type: none"> • Share food or toys equally and talk about halves • Practise counting in 2s, 5s and 10s • Use money in real-life situations (shops, role play) • Talk about time during daily routines • Ask your child to explain their maths thinking

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Year 2 Maths – What Your Child Will Learn and How You Can Help

Term	What children will learn in school	How parents can help at home
Autumn	<ul style="list-style-type: none">• Understand place value to 100• Partition numbers into tens and ones• Add and subtract 2-digit numbers• Count in 2s, 5s, 10s and 3s• Recognise properties of 2D and 3D shapes	<ul style="list-style-type: none">• Practise counting forwards and backwards to 100• Use number lines at home• Ask children to explain how they added or subtracted• Look for shapes around the home and environment• Use maths language such as greater than / less than
Spring	<ul style="list-style-type: none">• Use money confidently (pounds and pence)• Understand multiplication and division using equal groups• Learn the 2, 5 and 10 times tables• Measure length, height, mass, capacity and temperature• Solve simple word problems	<ul style="list-style-type: none">• Let children handle money and make amounts• Practise times tables regularly (short, fun practice)• Measure ingredients when cooking• Compare weights and sizes of objects• Encourage children to explain solving steps
Summer	<ul style="list-style-type: none">• Understand fractions ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$)• Tell the time to 5 minutes• Read and create simple graphs and pictograms• Use direction and movement language• Apply maths skills through problem solving	<ul style="list-style-type: none">• Share food to explore fractions• Ask time-related questions during the day• Look at charts or graphs together• Use directions when walking or playing• Support problem solving with encouraging questions

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Year 3 Maths – What Your Child Will Learn and How You Can Help

Term	What children will learn in school	How parents can help at home
Autumn	<ul style="list-style-type: none"> • Understand place value up to 1,000 • Compare, order and estimate numbers • Add and subtract 2- and 3-digit numbers • Begin multiplication and division using equal groups and times tables (2, 3, 4, 5, 8, 10) • Solve number problems using different strategies 	<ul style="list-style-type: none"> • Practise counting forwards and backwards • Use number lines to support addition and subtraction • Encourage recall of multiplication facts (short, regular practice) • Ask children to explain how they solved a calculation • Use maths language such as <i>estimate, difference, multiple</i>
Spring	<ul style="list-style-type: none"> • Develop multiplication and division using written methods • Measure and calculate perimeter • Understand fractions as part of a whole • Compare and order fractions • Measure mass and capacity using standard units 	<ul style="list-style-type: none"> • Practise times tables a few minutes a day • Measure ingredients when cooking • Talk about fractions when sharing food • Compare weights and capacities at home • Encourage drawing pictures or bar models to explain thinking
Summer	<ul style="list-style-type: none"> • Add and subtract fractions • Use money confidently (pounds and pence) • Tell the time to 5 minutes and use digital clocks • Identify and describe shapes and angles • Collect and interpret data using graphs 	<ul style="list-style-type: none"> • Use money in real-life situations • Ask time-related questions during routines • Talk about angles, sides and shapes around the home • Look at charts or graphs together • Praise problem-solving effort and reasoning

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Year 4 Maths – What Your Child Will Learn and How You Can Help

Term	What children will learn in school	How parents can help at home
Autumn	<ul style="list-style-type: none">• Extend place value understanding to 10,000• Round numbers to the nearest 10, 100 and 1,000• Use efficient written methods for addition and subtraction• Learn multiplication and division facts up to 12×12• Understand and calculate area	<ul style="list-style-type: none">• Practise times tables regularly (including 6, 7, 9, 11, 12)• Challenge children to estimate answers• Encourage accurate column methods• Use real objects to explore area (tiles, paper squares)• Ask “Does your answer make sense?”
Spring	<ul style="list-style-type: none">• Multiply and divide larger numbers• Measure and calculate perimeter• Understand fractions beyond one whole• Add and subtract fractions• Understand decimals to tenths and hundredths	<ul style="list-style-type: none">• Use times tables knowledge in games and challenges• Measure objects around the home• Discuss fractions and decimals in real-life contexts• Encourage careful working and checking• Ask children to justify their answers
Summer	<ul style="list-style-type: none">• Apply decimal understanding in money and measurement• Convert between units of time• Identify and classify geometric shapes• Interpret and draw graphs• Use coordinates and direction	<ul style="list-style-type: none">• Use money when shopping and budgeting• Talk about time using 12- and 24-hour clocks• Identify shapes and symmetry in buildings and patterns

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Year 5 Maths – What Your Child Will Learn and How You Can Help

Term	What children will learn in school	How parents can help at home
Autumn	<ul style="list-style-type: none">• Understand place value up to 10,000,000• Use efficient written methods for the four operations• Identify factors, multiples, prime, square and cube numbers• Add, subtract, multiply and divide fractions• Convert between units of measurement	<ul style="list-style-type: none">• Practise times tables and related facts regularly• Encourage estimating answers before calculating• Ask children to explain which operation they chose and why• Talk about fractions in real-life contexts (recipes, sharing)• Use everyday measurement (length, weight, distance)
Spring	<ul style="list-style-type: none">• Use ratio and proportion to solve problems• Understand and use algebra (expressions, equations)• Add, subtract, multiply and divide decimals• Understand fractions, decimals and percentages as equivalent• Calculate area, perimeter and volume	<ul style="list-style-type: none">• Use ratio language in everyday situations (recipes, scaling)• Practise decimal calculations using money• Encourage careful layout and checking of calculations• Talk about percentages in shopping discounts• Ask reasoning questions: “How do you know?”
Summer	<ul style="list-style-type: none">• Classify and measure angles• Use coordinates and describe position and direction• Use negative numbers in context• Convert between metric and imperial units• Calculate volume accurately	<ul style="list-style-type: none">• Identify angles and shapes in the environment• Use directional language when travelling or playing games• Talk about temperatures and number lines with negatives• Practise unit conversions in cooking or DIY tasks• Praise effort, accuracy and clear explanations



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Year 6 Maths – What Your Child Will Learn and How You Can Help

Term	What children will learn in school	How parents can help at home
Autumn	<ul style="list-style-type: none"> • Secure place value including decimals • Use efficient methods for all four operations • Solve complex fraction problems • Convert between metric units • Apply maths confidently to multi-step problems 	<ul style="list-style-type: none"> • Practise mental maths and times tables regularly • Encourage estimation before calculating • Discuss different strategies for solving problems • Practise fraction, decimal and percentage conversions • Build independence by asking children to self-check
Spring	<ul style="list-style-type: none"> • Use ratio and proportional reasoning • Solve algebraic equations • Work confidently with decimals and percentages • Calculate area and volume • Interpret and draw graphs, including pie charts 	<ul style="list-style-type: none"> • Use ratios in cooking or sharing tasks • Help children explain algebra step-by-step • Discuss percentages in real-life contexts • Read and interpret charts together • Encourage accuracy and clear presentation
Summer	<ul style="list-style-type: none"> • Apply shape knowledge, including angles and nets • Use coordinates and transformations • Solve real-life problem-solving projects • Consolidate all KS2 maths learning • Prepare confidently for transition to secondary school 	<ul style="list-style-type: none"> • Identify angles, symmetry and shapes around the home • Use coordinates in games or mapping apps • Encourage perseverance with challenging problems • Revisit key skills little and often • Reinforce confidence

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