

Curriculum Progression Map

Intent

At Warden Hill we aim for all pupils to:

- Belong to our community and develop the knowledge, skills and understanding in mathematics, which will be required in further study and adult life
- Belong to our houses in our inter-house maths cup, raising the profile and enjoyment of maths
- Explore their love of maths
- Explore maths as a tool to solve varied and challenging problems in a real life context
- Explore engaging tasks to develop lively and enquiring minds that strive for excellence
- Explore mathematical vocabulary to explain their reasoning
- Explore the cross curriculum links and how maths can be used in science and other subjects
- Succeed through a 'can do', positive and independent attitude enabling all children to do the very best they can



Implementation

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Reception Understand in depth, numbers to 10 (including some number bonds to 10) Recognise patterns within the number system Compare quantities in different contexts Explore measuring through practical experiences Look for and create patterns	Year 1 Read, write, count forward and back to 100 1 more and 1 less Count in 2,5 and 10s Represent numbers using concrete and pictorial methods Read, write and interpret mathematical operations +/-within 20 Represent x/÷	 Count in 2,3,5 and 10s (from any number) Place value to 100 +/- within 100 x/÷ with a 2,5 and 10s focus Simple equivalences of fractions Knowledge of ½,1/3,1/4, 2/4,3/4 Measurement 	 Count in multiples of 4,8,50 and 100 Place value to 100 Read and write numbers to 1000 +/- up to 3 digits x/÷ of a 2-digit and a 1-digit number. +/- fractions with the same denominator Recognise 1/10 Measure, 	Count backwards through zero including negative numbers Count in multiples of 6,7,9,25 and 1000. Place value to 1000 including rounding and Roman numerals to 100 Recognise place value columns to 2 dp and round to 1dp	Year 5 Place value including rounding to 1000000 +/- using mental and written methods with large numbers Identify all multiples and factors Prime and composite numbers. x/÷ mentally x/÷ 4 digit	Year 6 Place value 1000000 including negative numbers Multi-step problems using the four operations Identify common factors and multiples Use formal, long and short written methods to calculate multiplication and
using shapes and objects, developing spatial reasoning	 Represent x/÷ using picture methods Recognise half and quarters of 	using appropriate standard units • Making amounts of money in different ways	compare, and calculate standard units • Find the perimeter of 2d shapes	 +/- up to 4 digits. Estimating and using inverse operations x/÷ to 12x12 	numbers by up to 2 digit numbers x/÷ decimals by the power 10	division Understand the relationships of fractions,

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Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Develop a 'have a go attitude' when solving problems, persevering when challenges occur	numbers and shape Recognition of money denominations Introduction to length, mass and capacity Tell the time to o'clock and half past Sequence events using time language Understand turns and positional language Recognise 2d and 3d shapes	 Tell the time to quarter to and quarter past Properties of 2d and 3d shapes including symmetry Understand turns and positional language Interpret and construct simple pictograms, tally charts, block diagrams and simple tables 	 Money in practical contexts Tell the time using analogue and digital clocks Introduction to different angles and lines Interpret and present data using different charts 	 Multiply 2 and 3-digit numbers by a 1-digit number Recognise and write fraction and decimal equivalents Estimate, calculate and convert different measures Calculate perimeter and area of a shape Read, write and convert time on a 24-hour clock Compare and classify shapes including principles of symmetry Identify and compare different angles Interpret and present data using appropriate method 	 Recognise Square and cube numbers Recognise place value columns to 3 dps. Use mixed number and improper fractions Multiply fractions by whole numbers Round a number with two dps to the nearest whole number and one dp. Introduction to percentages and their relationship to fractions and decimals Compare metric and imperial measures Calculate area and perimeter of compound shapes Reflection and transition of shapes 	decimals and percentages Use the four operations when working with fractions Understand and apply ratios and proportion Introduction to algebra Convert units of measurement Calculate area and perimeter of parallelograms and triangles Interpret and construct line graphs and pie charts Understand mean as an average

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Impact

By the end of Year 6 your child will be able to:

- Apply the principles of mathematics to problem solving, logical and critical thinking and making informed choices.
- Apply their reasoning skills to effectively communicate their point to others during debates or teamwork. These reasoning skills support their thinking and aid communication.
- Apply their knowledge of money to support spending, budgeting and understand the value of money.
- Apply their confidence in mathematics to the broad range of opportunities at secondary school that draw on mathematical skills (Design and Technology, Food Technology, ICT, Textiles, Art etc.)
- Apply their knowledge of fractions and measurement to make them more successful at practical tasks like cooking and designing.
- Apply their knowledge of mathematical operations to stay fit and healthy, understanding and calculating food requirements.
- Apply their knowledge of time to everyday life and understand how time management can make them more efficient and organised individuals.
- Apply the skills needed for data handling to understand, present and interpret information that will allow them to make informed choices such as using a public transport timetable or their lesson planner in secondary school.
- Apply their understanding of data handling to spot patterns in information.
- Apply their knowledge of Shapes to help identify differences, improve categorisation and develop practical skills in science and DT.
- Apply their understanding of ratio and proportion to creative tasks such as colour mixing and appreciating the beauty in nature and their surroundings.



