



Mathematics

Autumn Term

Year 6

In this booklet you will find information about what your child will be covering in Maths in the Autumn Term. To reach the expected standard by the end of the year pupils should be able to understand and apply these skills. The back page has information on how you can help your child to achieve these expectations.



Autumn Term

First Half



- Multiply and divide numbers by 10, 100 and 1000.
- Add and subtract whole numbers with more than 4 digits using column methods.
- Solve problems involving decimals.
- Use knowledge of the order of operations to carry out calculations.
- Solve problems involving addition, subtraction, multiplication and division.
- Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication.
- Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit.
- Identify the value of each digit in numbers given to three decimal places.
- Convert decimals (up to 3 places) to fractions and vice versa using thousandths, hundredths and tenths.
- Round numbers, with up to 3 decimal places.
- Express missing number problems algebraically and identify appropriate methods in order to solve them.
- Convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa.
- Convert between miles and kilometres.
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.



Autumn Term

Second Half



- Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
- Perform mental calculations, including with mixed operations and large numbers.
- Divide numbers up to 4 digits by a one-digit number using short division and interpret remainders appropriately for the context.
- Add and subtract fractions with different denominators and mixed numbers.
- Solve problems involving the calculation of percentages.
- Multiply proper fractions and mixed numbers by whole numbers.
- Divide proper fractions by whole numbers.
- Use negative numbers in context, and calculate intervals across zero.
- Compare and order fractions, including fractions greater than 1.
- Recognise when it is possible to use formulae for area and volume of shapes.
- Calculate the area of parallelograms and triangles.
- Calculate, estimate and compare volume of cubes and cuboids using standard units.
- Recognise, describe and build simple 3D shapes, including making nets.
- Recall and use equivalences between simple fractions, decimals and percentage.



How can you help your child?



- **Mymaths**— This is a maths based website. Each pupil has their own login and password for this website. The website contains a wealth of resources and games for pupils to practise and consolidate learning from the classroom. This website is also often used as a homework resource.
- **Homework**—Pupils will receive one piece of Maths homework each week. This homework will be given out on a Friday and will be due in the following Friday. All details should be written in your child's homework diary. Homework will either be paper based homework or on Mymaths. Your support with this is invaluable.
- **Times Tables**—Knowing times tables thoroughly will help your child in all area of Maths. Pupils will have times tables tests every other week—please help by helping your child learn them. There are many ways of doing this—times tables apps, games etc. See school website for more details.
- **Calculations** - There is a big emphasis in the new curriculum on using formal methods for calculating. Solid foundations of the four calculation methods (addition, subtraction, multiplication and division) will help your child greatly when applying these skills to word problems and problem solving. For more information on how we teach these methods please see our calculation policy on the school website.
- **Play games and talk maths**— Spend time with your child playing mathematical games and talking about Maths we meet everyday in real-life situations. Make your child realise Maths is fun and necessary for everyday life!

Thanks for all your support, please don't hesitate to get in touch if you have any questions or queries.