



# 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



### Block 1—Place Value

- Step 1: Read and write numbers up to 10, 000,000 and determine the value of each digit.
- Step 2: Compare and order numbers up to 10,000,000.
- Step 3: Round any whole number to a required degree of accuracy.
- Step 4: Use negative numbers in context and calculate intervals across zero.
- Step 5: Solve problems with all of the above.

### Block 2 —Calculations

- Step 1: Solve addition and subtraction multi-step problems in context.
- Step 2: Multiply up to a 4-digit number by a 2-digit number using long multiplication.
- Step 3: Divide numbers up to 4 digits by a single digit using short division and interpret the remainder according to the context.
- Step 4: Divide numbers up to 4 digits by a 2-digit whole number using long division and interpret the remainder according to the context.
- Step 5: Perform mental calculations, including with mixed operations and large numbers.
- Step 6: Identify common factors, common multiples and prime numbers.
- Step 7: Solve problems involving addition, subtraction, multiplication and division.
- Step 8: Use estimation to check answers to calculations.



# Autumn Term

## Second Half



### Block 3—Fractions

- Step 1: Simplify fractions.
- Step 2: Place fractions on a number line.
- Step 4: Compare and order fractions.
- Step 5: Add and subtract fractions.
- Step 6: Multiply fractions by integers.
- Step 7: Multiply fractions by fractions.
- Step 8: Divide fractions by integers.
- Step 9: Find fractions of amounts.

### Block 4—Position and Direction

- Step 1: Recap work on reading and plotting coordinates in the first quadrant.
- Step 3: Describe positions on the full coordinate grid (all four quadrants).
- Step 3: Draw and translate simple shapes on the coordinate plane.
- Step 4: Reflect simple shapes in the axes.



# 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, set in google classroom 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 week—please support your child by helping them to learn them. There are many ways of doing this— times tables apps, games etc. All pupils also have access to Times Table Rockstars. We recommend that pupils spend 10 minutes each night practising their tables.

**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!

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