Mathematics

Autumn Term

Year 5

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, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.

Step 2: Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.

Step 3: Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.

Step 4: Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10, 000 and 100, 000.

Step 5: Solve number problems and practical problems than involve all of the above.

Step 6: Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

Block 2 —Addition and Subtraction

Step 1: Add whole numbers with more than 4-digits using the column method

Step 2: Subtract whole numbers with more than 4-digits using the column method.

Step 3: Round to estimate and approximate.

Step 4: Use inverse operations (addition and subtraction).

Step 5: Solve addition and subtraction multi-step problems in contexts.

Autumn Term Second Half

Block 3— Statistics

Step 1: Read and interpret line graphs.

Step2:   Use line graphs to solve problems.

Step 3: Read and interpret tables.

Step 4: Understand two-way tables.

Step 5: Read and interpret timetables.

Block 4— Multiplication and Division

Step 1: Multiply and divide numbers mentally.

Step 2: Multiply and divide whole numbers by 10, 100 and 1000.

Step 3: Identify multiples and factors.

Step 4: Find factor pairs of a number.

Step 5: Find common factors of two numbers.

Step 6: Recognise and use square and cubed numbers and use the correct notation.

Step 7: Know and use the vocabulary of prime numbers, prime factors and composite
         (non-prime) numbers.

Step 8: Establish whether a number up to 100 is prime and recall prime numbers up to 19.

Block 4— Area and Perimeter

Step 1: Calculate the perimeter of rectilinear shapes from diagrams without grids.

Step 2: Calculate the perimeter of irregular shapes.

Step 3: Use the formula to calculate the area of a rectangle.

Step 4: Calculate the area of compound shapes.

Step 5: Estimate the area of irregular shapes.

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.