

YEAR 5 AUTUMN TERM 2021-2022

TEACHERS: MR ZEESHAN ALI / MR ZAFAR RAZVI

MATHS OVERVIEW

What will we be covering this term?

1st Half Term:

Number Place value

Read, write, order and compare numbers (in figures and words) to at least 1000000 and determine the value of each digit.

Count forwards or backwards in steps of powers of 10 for any given number up to 1000000.

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

Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000.

Solve number problems and practical problems that involve all of the above.

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

Continue to use number in context, including measurement. Extend and apply their understanding of the number system to the decimal numbers and fractions that they have met so far.

Recognise and describe linear number sequences, including those involving fractions and decimals, and find the term-to-term rule.

Number- Addition and Subtraction

Halving and Doubling

Learn strategies to double and halve two digits.

Revise all times tables fluently including missing factors.

Practise inverse multiplication (division).

Practise missing dividend/divisors for division.

Number- Addition and Subtraction

Add and subtract numbers mentally with increasingly large numbers.

Add and subtract whole numbers with more than 4 digits, including using

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.

Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why.

Calculate addition and subtraction problems mentally.

Number – Multiplication and Division

Multiply and divide numbers mentally drawing upon known facts. Multiply and divide whole numbers by 10, 100 and 1000.

Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers.

Divide numbers up to 4 digits by a one digit number using the formal written method of long division and interpret remainders appropriately for the context.

Identify multiples and prime numbers; multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.

Recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3)

Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.

Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign.

Use multiplication and division as inverses to support the introduction of ratio in year 6

Graphs

Solve comparison, sum and difference problems using information presented in a line graph, tally, pie chart, bar chart and pictogram. Use Venn diagrams to classify a set of numbers.

Complete, read and interpret information in tables including timetables.

2nd Half Term:

Decimals, Fractions and Percentages

Review vocabulary related to fractions.

Review rounding numbers to one or two places and relate fractions to division and their equivalent decimals.

Begin to understand percentages as the number of parts in every hundred.

Learn to solve simple problems using ideas of ratio and proportion.

Learn how to place fractions in order of size.

Money (reinforcement of decimal point)

Solve word problems involving quantities based on real life money, using one or more steps.

Times tables

Revise all times tables fluently including missing factors.

Practise inverse multiplication (division).

Practise missing dividend/divisors for division.

Time

Review units of time. Be able to read the time on a 24 hour digital clock.

Use 12 and 24 hour clocks for time and understand the concept of speed.

Practise word problems on digital time.

Angles

Calculate interior angles of triangles,

Placing angles in order of size.

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Teacher's Marking

Key:

✓ = means what you have done well.

NS = Next Steps - is something you need to work on.

TD= Teacher has talked to you about your work

SM = Self marking

PM = Partner marking

How can I help my child in this subject?

Revise the concepts being taught this term and complete additional work at home to help reinforce concepts.

Regularly revise the times tables.

How will my child be assessed this term?

Students will be given regular homework to complete. During the term there will be ongoing unit tests and an end of term, summative assessment. Children's classwork, homework and unit tests will be checked to assess the progression of each child.