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# BUILT FOR BRILLIANCE

– Connect2Learn

At Connect2Learn, we believe brilliance isn't born – it's built. Our global learning platform is designed to empower every student with personalized, one-on-one education that nurtures skills, confidence, and curiosity. From core academics to creative and future-ready subjects, we connect passionate educators with young minds across the UK, Australia, and the US. With 5,000+ learners and a mission to reach 10,000 more, Connect2Learn is shaping a generation that's not just prepared for the future – but ready to lead it.



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# MATHS DISCOVERERS

## MODULE -1 ADDITION AND SUBTRACTION

### ADDITION AND SUBTRACTION

- Deriving addition and subtraction facts by using given calculations
- Choosing appropriate addition and subtraction strategies
- Adding and subtracting using the column method, when multiple columns require regrouping
- Solving two-step word problems
- Applying and consolidating: Word problems and bar models



### REVIEW OF COLUMN ADDITION AND SUBTRACTION

- Review and use knowledge of place value to correctly lay out column addition
- Review adding 2-digit numbers using column addition without regrouping
- Review adding 3-digit numbers using column addition without regrouping
- Review using column addition with regrouping in the ones and tens columns
- Use knowledge of column addition to solve problems in a range of contexts
- Review using column subtraction to subtract without regrouping
- Review using column subtraction with regrouping from tens to ones
- Review using column subtraction with regrouping from hundreds to tens
- Decide on the most efficient subtraction strategy, including column subtraction



# MATHS DISCOVERERS

## MODULE -2 PLACE VALUE.

### REASONING WITH 4-DIGIT NUMBERS

- Recognising the place value of each digit in a 4-digit number
- Ordering and comparing a set of numbers beyond 1000
- Finding 10, 100 or 1000 more and less than a given number
- Rounding numbers to the nearest 100
- Rounding numbers to the nearest 1000
- Finding the odd one out



### SECURE PLACE VALUE TO 1000: APPLY TO ADDITION AND SUBTRACTION: MULTIPLES OF 100

- Explain how many hundreds, tens and ones 1,000 is composed of
- Use place value to compose numbers up to 2,000 using hundreds, tens and ones
- Use addition and subtraction strategies to solve problems with multiples of 100
- Use different strategies to add multiples of 100
- Use different strategies to subtract multiples of 100



# MATHS DISCOVERERS

## MODULE -2 PLACE VALUE

### CALCULATION AND CONVERSION OF MEASURES

- Use knowledge of 1,000 to explain common measure conversions
- Partitioning 1,000 in the context of measures
- Partitioning 1,000 and 2,000 in the context of measures
- Use knowledge of measure conversions to interpret graphs and tables
- Use efficient strategies and common measure conversions to solve problems in a range of contexts



### COMPARING, ORDERING AND ROUNDING 4-DIGIT NUMBERS

- Use place value and number facts to decompose 4-digit numbers in different ways
- Compare and order 4-digit numbers
- Explain what rounding is and round a 4-digit number to the nearest thousand
- Round a 4-digit number to the nearest hundred and ten
- Round a 4-digit number to the nearest thousand, hundred and ten



# MATHS DISCOVERERS

MODULE -2 PLACE VALUE.

## DECIMALS

- Comparing Decimals
- Decimal Number Bonds
- Mental Addition and Subtraction
- Recognising Common Decimal Equivalents
- Ordering Decimals



# MATHS DISCOVERERS

## MODULE -3 MULTIPLICATION AND DIVISION.

### REPRESENT COUNTING IN THREES AND SIXES AS THE 3 AND 6 TIMES TABLES

- Represent counting in threes as the 3 times table
- Explain the relationship between adjacent multiples of three
- Represent counting in sixes as the 6 times table
- Explain the relationship between adjacent multiples of six
- Solve problems involving multiples of 6



### RELATIONSHIP BETWEEN THE 3 AND 6 TIMES TABLES AND TESTS OF DIVISIBILITY

- Use knowledge of the 3 and 6 times tables to solve problems
- Explain the relationship between multiples of three and six
- Use knowledge of the relationships between the 3 and 6 times tables to solve problems
- Use the divisibility rules to find multiples of 3
- Use divisibility rules for multiples of 6



# MATHS DISCOVERERS

## MODULE -3 MULTIPLICATION AND DIVISION

### REPRESENT COUNTING IN NINES AS THE 9 TIMES TABLE

- Represent counting in nines as the 9 times table
- Explain the relationship between adjacent multiples of nine
- Solve problems involving adjacent multiples of nine
- Use known facts from the 10 times table to solve problems involving the 9 times table
- Use knowledge of the 9 times table to solve problems



### RELATIONSHIP BETWEEN THE 3 AND 9 TIMES TABLES

- Explain the relationship between multiples of three and multiples of nine
- Explain the relationship between pairs of 3 and 9 times table facts that have the same product
- Solve problems using the relationship between 3 and 9 times table
- Solve problems using divisibility rules for divisors of 3, 6 and 9
- Solve problems involving the 3, 6 and 9 times tables



# MATHS DISCOVERERS

## MODULE -3 MULTIPLICATION AND DIVISION

### DIVISION WITH REMAINDERS

- Represent division by grouping with multiplication and addition equations
- Solve division problems involving grouping, including those with remainders
- Represent division by sharing with equations
- Use multiplication facts to answer division questions
- Use knowledge of division equations and remainders to solve problems
- Use knowledge of division to solve problems



# MATHS DISCOVERERS

## MODULE -4 GEOMETRY AND MEASURE

### TIME: CONVERT BETWEEN 12 AND 24 HOUR CLOCKS: ANALOGUE AND DIGITAL

- Read the time on a 12 and 24 hour digital clock
- Convert between times given in 12 and 24 hours
- Convert from hours to minutes and minutes to seconds
- Convert from days to weeks and months to years
- Solve problems involving writing, telling and converting the time



### PROPERTIES OF 2D AND 3D SHAPES AND SYMMETRY

- Explore, sort and classify triangles
- Complete a symmetrical pattern
- Investigate lines of symmetry in 2D shapes by folding
- Find lines of symmetry in 2D shapes
- Reflect polygons that are dissected by the line of symmetry
- Diagonal lines of symmetry
- Investigate symmetry and symmetrical patterns



# MATHS DISCOVERERS

## MODULE -4 GEOMETRY AND MEASURE.

### MONEY: APPLY EFFICIENT STRATEGIES WHEN CALCULATING WITH MONEY

- Explain and represent whole pounds and pence as a quantity of money
- Explain how to compare amounts of money without converting
- Use knowledge of addition to add commonly used prices efficiently
- Use knowledge of subtraction to calculate change when paying with whole pounds or notes
- Calculate change when purchasing several items
- Solve a range of problems, including finding change



# MATHS DISCOVERERS

## MODULE -5 FRACTION .

### ADDITION AND SUBTRACTION OF FRACTIONS AND MIXED NUMBERS (WITHIN A WHOLE)

- Efficiently solve addition problems (within a whole)
- Efficiently solve subtraction problems (within a whole)
- Express an amount of quarters as a mixed number and an improper fraction.
- Express an amount of fifths as a mixed number and an improper fraction.
- Express a quantity as a mixed number and an improper fraction



### CONVERT IMPROPER FRACTIONS TO MIXED NUMBERS AND VICE VERSA

- Convert a number of quarters from an improper fraction to a mixed number
- Convert a number of fifths from an improper fraction to mixed number
- Explain how an improper fraction is converted into a mixed number
- Explain how a mixed number is converted into an improper fraction
- Solve problems involving converting between mixed numbers and improper fractions



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