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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 INNOVATORS

**MODULE -1 UNDERSTAND MULTIPLES OF 10 AND NEGATIVE EXPONENTS,
WRITE AND ORDER SMALL NUMBERS IN STANDARD FORM, AND SOLVE
RELATED PROBLEMS.**

STANDARD FORM

- Checking and securing understanding of multiples of 10
- Multiples of 10 involving negative exponents
- Writing small numbers in standard form
- Ordering numbers in standard form
- Problem solving with standard form



MATHS INNOVATORS

MODULE -2 EXPLORE EQUAL AND UNEQUAL OUTCOMES USING VENN DIAGRAMS AND TREES; SOLVE PROBABILITY PROBLEMS AND APPLY PYTHAGORAS' THEOREM IN RIGHT-ANGLED CONTEXTS.

PROBABILITY: POSSIBLE OUTCOMES

- Equally likely outcomes and non-equally likely outcomes
- Experiments to determine how likely an outcome is
- Using a Venn diagram to display outcomes for two events
- Using an outcome tree to display outcomes for more than two events
- Using a Venn diagram to display outcomes for more than two events
- Problem solving with possible outcomes



PROBABILITY: THEORETICAL PROBABILITIES

- Checking listing possible outcomes
- The probability scale
- Comparing multiple representations to calculate theoretical probabilities
- Summing probabilities
- Comparing multiple representations to calculate theoretical probabilities for combined events
- Problem solving with theoretical probability



MATHS INNOVATORS

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PYTHAGORAS'S THEOREM

- Tilted squares
- Finding the length of a line from tilted squares
- Right-angled triangles and tilted squares
- Generalising: Pythagoras's theorem
- Pythagorean triples



MATHS INNOVATORS

MODULE -3 EXPLORE SHAPE SIMILARITY, CONGRUENCE, PYTHAGORAS' THEOREM, AND TRIGONOMETRY; SOLVE TRIANGLE PROBLEMS AND APPLY GEOMETRY TO ENVIRONMENTAL CONTEXTS LIKE CLIMATE AND GREEN CITIES.

GEOMETRICAL PROPERTIES: SIMILARITY AND PYTHAGORAS' THEOREM

- Checking understanding of similarity
- Similarity in shapes
- Congruent, similar or neither
- Demonstrating Pythagoras' theorem
- Pythagoras' theorem in context
- Problem solving with similarity and Pythagoras' theorem



TRIGONOMETRY

- Checking and securing understanding of similar triangles
- Checking and securing understanding of Pythagoras' theorem
- Sine and cosine ratios
- Choosing the right trigonometric ratio
- Choosing an appropriate method for finding lengths of a triangle
- Problem solving with trigonometry



MATHS INNOVATORS

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MATHS AND THE ENVIRONMENT

- Solar power
- Considering a route
- Understanding weather data
- Studying climate change
- Making cities greener
- Designing a green space



CONSTRUCTIONS, CONGRUENCE, AND LOCI

- Introducing loci
- Angle bisectors
- Triangle centres
- Plan problems
- Congruence

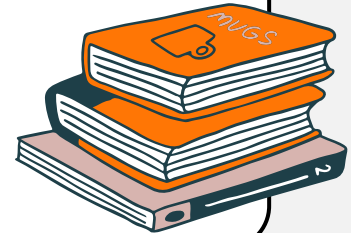


MATHS INNOVATORS

MODULE -3 EXPLORE SHAPE SIMILARITY, CONGRUENCE, PYTHAGORAS' THEOREM, AND TRIGONOMETRY; SOLVE TRIANGLE PROBLEMS AND APPLY GEOMETRY TO ENVIRONMENTAL CONTEXTS LIKE CLIMATE AND GREEN CITIES.

FAMOUS MATHS PROBLEMS

- Four colour map theorem
- The twin prime conjecture
- 3D Coordinates
- The Painted Cube



ANGLE REVIEW (9.5A)

- Angles in triangles
- Angles in polygons
- Straight line angles and angles around a point
- Angles in parallel lines



MATHS INNOVATORS

MODULE -4 STUDY ARITHMETIC AND GEOMETRIC SEQUENCES, SOLVE QUADRATIC AND SIMULTANEOUS EQUATIONS, AND APPLY ALGEBRAIC METHODS TO REAL-WORLD NON-LINEAR PROBLEMS.

NON-LINEAR RELATIONSHIPS

- Securing understanding of arithmetic sequences
- Features of geometric sequences
- Representing geometric sequences graphically
- Extrapolating a sequence
- Problem solving with non-linear relationships



EXPRESSIONS AND FORMULAE

- Checking and securing understanding of the distributive law with algebraic terms
- The product of two binomials
- Difference of two squares
- More complex binomial products
- Changing the subject with simple and complex formula
- Problem solving with expressions and formulae



MATHS INNOVATORS

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GRAPHICAL REPRESENTATIONS

- Checking and securing understanding of non-linear sequences
- Extending thinking about sequences
- Equations and their graphs
- Reading from graphs and modelling with graphs
- Graphically solving two linear graphs that intersect
- Problem solving with graphical representations



QUADRATIC EXPRESSIONS (9.9)

- Recognising linear and non-linear graphs
- Quadratic contexts
- Maximum and minimum area
- Expanding double brackets
- Sketching quadratics
- Interesting quadratic patterns



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QUADRATIC EQUATIONS (9.10)

- Forming quadratic equations I and II
- Solving pure quadratic equations
- Number of solutions
- Solving quadratic simultaneous equations graphically
- Solving quadratic equations graphically
- Rearranging quadratic equations



SOLVING LINEAR SIMULTANEOUS EQUATIONS ALGEBRAICALLY

- Reviewing solving equations
- Linear relationships
- Exploring expressions with two variables
- Solving simultaneous equations
- Writing simultaneous equations algebraically
- Solving word problems
- Using substitution to solve simultaneous equations
- Substitution or Elimination



MATHS INNOVATORS

**MODULE -5 REPRESENT FRACTIONS, DECIMALS, PERCENTAGES, AND
RECURRING DECIMALS; REVIEW ALL FOUR OPERATIONS WITH
FRACTIONS, DECIMALS, AND PERCENTAGES.**

FRACTIONS, DECIMALS AND PERCENTAGE REVIEW (9.1A)

- Representing fractions, decimals, and percentages
- Representing recurring decimals
- Reviewing addition and subtraction
- Reviewing multiplication and division



MATHS INNOVATORS

MODULE -6 CALCULUS FUNDAMENTALS (DEFINE AND INTERPRET DERIVATIVES AS INSTANTANEOUS RATES OF CHANGE. DEFINE AND INTERPRET DERIVATIVES AS INSTANTANEOUS RATES OF CHANGE.)

CALCULUS

- Derivatives
- Functions as Relationships
- Graph Behaviour and Interpretation
- Differentiation Rules
- Integration
- The Fundamental Theorem



CIRCLES, PARABOLAS AND ACCELERATION

- Circle Parabola
- Acceleration:Function & Notation



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GROWING TOGETHER

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Personalized 1:1 Learning in Coding,
Math, English & More

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