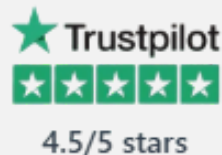


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At Connect2Learn, we believe brilliance isn't born – it's built. Our global learning platform is designed to empower every student with personalized, one-on-one education that nurtures skills, confidence, and curiosity. From core academics to creative 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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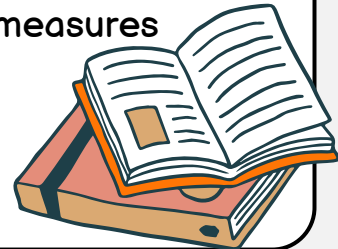
MATHS

KNOWLEDGE KEEPERS

MODULE -1 RATIO AND PROPORTION

COMPOUND MEASURES

- Checking and further securing understanding of direct proportion in context
- Compound measures for speed
- Compound measures for density
- Compound measures for pressure
- Converting between metric speed measure
- Converting between metric and imperial speed measures
- Combining speeds
- Combining densities
- Problem solving with compound measures



MATHS KNOWLEDGE KEEPERS

MODULE -2 DESCRIPTIVE AND APPLIED STATISTICS

APPLIED STATISTICAL ANALYSIS

- Types of variables
- Displaying categorical data: The bar chart
- Displaying numerical data: The histogram
- Characteristics of distributions of numerical variables
- Stem and leaf plots
- Interpretation of graphs
- The boxplot
- Extension: The q-correlation co-efficient
- Extension: The correlation co-efficient
- Extension: Lines on scatterplots
- Extension: Lines on scatterplots
- Extension: The least squares regression line



MATHS KNOWLEDGE KEEPERS

MODULE -3 ALGEBRA

REAL-LIFE GRAPHS

- Checking and securing understanding of reading from context-based graphs
- Checking and securing understanding of drawing distance-time graphs
- Distance-time graphs
- Speed-time graphs
- Non-linear distance-time graphs
- Interpreting and drawing real-life graphs
- Problem solving with real-life graphs



ALGEBRAIC FRACTIONS

- Checking and securing understanding of solving with simple algebraic fractions
- Checking and securing understanding of changing the subject with simple algebraic fractions



MATHS KNOWLEDGE KEEPERS

FURTHER SEQUENCES

- Checking and securing understanding of special number sequences
- Checking and securing rules for generating arithmetic sequences
- Identifying values in an arithmetic sequence
- Reasoning about values in an arithmetic sequence
- Conditions in arithmetic sequences
- Arithmetic sequences and their graphs
- Checking and securing understanding of geometric sequences



INEQUALITIES

- Checking and securing understanding of simultaneous equations
- Non-solutions to simultaneous linear equations
- Inequalities on number lines
- Solving simple linear inequalities
- Solving more complicated linear inequalities
- Linear inequalities in context
- Factorising
- The discriminant



MATHS KNOWLEDGE KEEPERS

MODULE -4 GEOMETRY AND MEASURE

2D AND 3D SHAPE: SURFACE AREA AND VOLUME (PYRAMIDS, SPHERES AND CONES)

- The surface area of a pyramid
- The volume of a pyramid
- The surface area of a sphere
- The volume of a sphere
- The surface area of a cone
- The volume of a cone
- Surface area of composite solids
- Volume of composite solids



VECTORS

- Checking and securing understanding of translations
- Column vectors
- Parallel vectors
- Addition with vectors
- Subtraction with vectors
- Multiplication with vectors
- Fluency in arithmetic procedures with vectors
- Problem solving with vectors



MATHS KNOWLEDGE KEEPERS

LOCI AND CONSTRUCTION

- Checking and securing understanding of constructing the perpendicular bisector of a line segment
- Checking and securing understanding of bisecting an angle
- Constructing angles of 90° and 45°
- Constructing a triangle given three side lengths using compasses
- Constructing a triangle given two side lengths and the angle between them using a compass
- Constructing a triangle given two angles and the side length between them
- Constructing a right-angled triangle given the length of the hypotenuse and one other side length
- Constructing a triangle given two side lengths and an angle not between them
- Constructing loci
- Applying constructions to loci problems



MATHS KNOWLEDGE KEEPERS

COORDINATE GEOMETRY

- Distance, Midpoint, and Gradient
- Equation of a Straight Line
- Parallel and Perpendicular Lines
- Equation of a Circle
- Intersections and Tangents
- Problem Solving with Coordinate Geometry



MATHS KNOWLEDGE KEEPERS

MODULE -5 STATISTICS AND PROBABILITY

TRIGONOMETRY

- Trigonometric Ratios and Exact Values
- Trigonometric Graphs
- Solving Trigonometric Equations
- Defining sine, cosine and tangent
- Sine Rule and Cosine Rule
- Applications of Trigonometry
- Defination of a radian
- Transalation in horizontal and vertical directions
- Graphs of $y=\sin x$ and $y=\cos x$
- Applications of periodic functions



ALGEBRA AND FUNCTIONS

- Review of Algebraic Techniques and Laws
- Linear Functions and Graphs
- Quadratic Functions and Graphical Features
- Polynomial and Rational Functions
- Exponential and Logarithmic Functions
- Function Transformations and Modelling



VOICES OF TRUST

- CONNECT2LEARN REVIEWS



syed mir aijaz Ali
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★★★★★



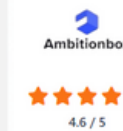
My twins have been taking classes from connect2learn from one year and the experience so far is amazing.



Shalom SharonLily.
@trustpilot

★★★★★

We had great experience with connect2learn. My child's Maths teacher Shambhavi was very friendly and supportive for my child's progress.



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