



Year 10 Mathematics LTP



Autumn 1

Topic: Number (Fractions and percentages), Algebra

Why it's taught: To extend understanding involving fractions, calculation involving fractions, Conversion between fractions, decimals and percentages. Percentage of an amount, with and without a calculator, Percentage change. Solve linear equations, Forming and solving linear equations



Autumn 2

Topic: Geometry and Measures, Handling Data

Why it's taught: To solve problems involving circles (area, circumference, arc length and area of sector)

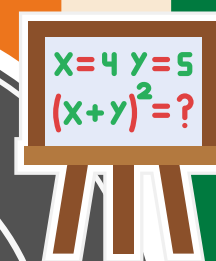
To represent and organise data by using different types of statistical diagrams, To calculate averages and spread from discrete and grouped data.



Spring 1

Topic: Ratio and Proportion, Probability

Why it's taught: To solve problems involving ratio and proportion, direct and inverse proportion, To understand about basic probability, probability of happening and not happening events, relative frequency, Set Theory and Venn diagrams



Spring 2

Topic: Number & Algebra

Why it's taught: To work with factors, multiples and primes, using prime factor decomposition to find HCF and LCM.

To understand the meaning of powers and roots, indices. To apply laws of indices to numbers and algebraic terms.

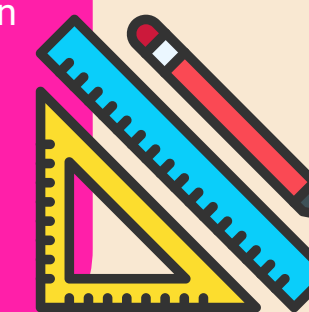
To recognise and work with sequences.



Summer 1

Topic: Geometry and Measures

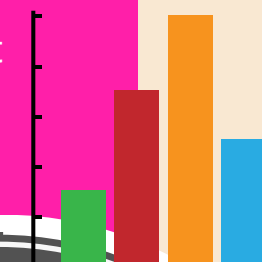
Why it's taught: To identify properties of 2D and 3D shapes, understanding transformations, 2D representation of 3D shapes, volume and surface area



Summer 2

Topic: Algebra and graphs

Why it's taught: Revisit the algebra topics, simplifying expressions, factorising, equations
To draw and interpret different types of graphs.



Learn

Achieve

Together