## MATHEMATICS - YEAR 9

## Number:

Order integers and decimals using correct symbols. Addition, subtraction, multiplication and division. BIDMAS.

Decimal notation and place value. Add, subtract, divide ad multiply decimals. Rounding to decimal

Square and cube numbers. Recognise powers of 2,3,4 and 5 . Roots. Add, subtract, multiply and divide in

Identify factors, multiples and prime numbers. List all factors of a number systematic ally. Prime factor decomposition of a umber. Find HCF and LCM using

## Data Handling:

Sort, classify and tabulate data including discrete, continuous, quantitative and qualitative. Averages. Two-way tables. Averages from frequency and grouped frequency tables.

Draw circles and arcs, Measure and draw angles.
make predictions.

## Algebra:

simple equations. Approximate results of equations Inequalities on number line. Solve inequalities and

Recognise sequences including Fibonacci sequences.
sequence. Continue a geometric and quadratic sequence to generate missing terms.

## Algebra:

Write an expression. Simplify algebraic expressions. Multiply algebraic expressions. Divide algebraic

Multiply a single number over a bracket. Simplify expressions involving brackets. Factorise algebraic expressions by taking out common factors.

Write expressions to solve problems representing a situation. Substitute numbers into expressions.

## Number:

Simplify fractions and recognise equivalent fractions.
between mixed numbers and improper fractions. Add, subtract, multiply and divide fractions.

Convert between fractions. Percentages and decimals. Convert fractions into recurring decimals. Compare and order fractions, percentages and decimals. Percentage as fraction.
percentages using multipliers.

## Shape and Space:

protractor. Identify perpendicular and parallel lines. Recall properties of quadrilaterals. Angles at a point,
corresponding angles and vertically opposite angles.

## MATHEMATICS HIGHER - YEAR 9


#### Abstract

Number:

Index notation for powers including negative and roots.maps. Identify factors, multiples and prime numbers. List all factors of a number systematically. Prime factor decomposition of a umber. Find HCF and LCM using

Convert between standard form and normal numbers. Add/subtract/multiply and divide in standard form. Simplify surds.


## Data Handling:

Sort, classify and tabulate data including discrete, continuous, quantitative and qualitative. Averages. Two-way tables. Averages from frequency and grouped frequency tables. Stem and leaf diagram.
make predictions. Interpolate and extrapolate.

