

Delving into Data

- Understanding populations and samples
- Construct a stratified sample H
- Primary and secondary data
- Construct and interpret frequency tables and frequency polygons
- Construct and interpret two-way tables R
- Construct and interpret line and bar charts (including composite bar charts)
- Construct and interpret pie charts R
- Criticise charts and graphs
- Construct histograms H
- Interpret histograms H
- Find and interpret averages from a list R
- Find and interpret averages from a table R
- Construct and interpret stem-and-leaf diagrams
- Construct and interpret cumulative frequency diagrams H
- Use cumulative frequency diagrams to find measures H
- Construct and interpret box plots H
- Compare distributions using charts and measures
- Compare distributions using complex charts and measures H
- Construct and interpret scatter graphs R
- Draw and use a line of best fit R
- Understand extrapolation

Non-calculator Methods

- Mental/written methods of integer/ decimal addition, subtraction, multiplication and division R
- The four rules of fraction arithmetic R
- Exact answers




Non-calculator Methods

- Rational and irrational numbers (convert recurring decimals here) H
- Understand and use surds H
- Calculate with surds H
- Rounding to decimal places and significant figures R
- Estimating answers to calculations R
- Understand and use limits of accuracy
- Upper and lower bounds H
- Use number sense
- Solve financial maths problems
- Break down and solve multi-step problems

Types of Numbers and Sequences

- Understand the difference between factors and multiples R
- Understand primes and express a number as a product of its prime factors R
- Find the HCF and LCM of a set of numbers R
- Describe and continue arithmetic and geometric sequences
- Explore other sequences
- Describe and continue sequences involving surds H
- Find the rule for the n th term of a linear sequence R
- Find the rule for the n th term of a quadratic sequence H

Indices and Roots

- Square and cube numbers R
- Calculate higher powers and roots
- Powers of 10 and standard form R
- The addition-/ subtraction rules for indices R
- Understand and use the power zero and negative indices 



YEAR 10

Summer Term

Indices and Roots

- Work with powers of powers
- Understand and use fractional indices H
- Calculate with numbers in standard form R