## SUBJECT CURRICULUM MAP Mathematics - Key Stage 3

Assessment: Reasoning with Dimensions.


Assessment: Algebraic Thinking, Place Value \& Proportion, Application of Number, Directed Number, Fractional Thinking.


Assessment: Algebraic Thinking, Place Value and Proportion

Application of Number -Solving problems with addition and subtraction -Multiplication and division - Fractions and decimals of amounts

## Place Value and Proportion

## -Place value

-Ordering integers and decimals
-Fraction, decimal and percentage equivalence

Assessment: Proportional Reasoning, Representations, Algebraic Techniques, Developing Number.


## Developing Number

- Fractions and
percentages
- Standard index form - Number sense

Algebraic Techniques -Brackets, equations and inequalities -Sequences -Indices

## Representations

 -Working in the -Representing Data -Tables and Probability
## FLUENCY

- Quick and accurate recall of key facts
- Knowledge/selection of appropriate techniques/strategies


## REASONING

- Applying logical thinking to a situation to derive the correct problem solving strategy
- The bridge between fluency and problem solving.


## PROBLEM SOLVING

- Finding a way to apply knowledge and skills to answer unfamiliar types of problems.



## FLUENCY

- Quick and accurate recall of key facts
- Knowledge/selection of appropriate techniques/strategies


## REASONING

- Applying logical thinking to a situation to derive the correct problem solving strategy
- The bridge between fluency and problem solving.


## PROBLEM SOLVING

- Finding a way to apply knowledge and skills to answer unfamiliar types of problems.



## SUBJECT CURRICULUM MAP Level 3 Core Mathematics

FURTHER STUDY


CAREER PATHS

- Humanities
- Banking/Finance
- Journalism
- Business Operations
- Insurance/Risk


## SKILLLS

- Reasoning
- Evaluation
- Analysis
- Problem Solving

Exam Technique

- Interleaved Problems


## Data

- Probability and Estimation

Finance

- Value Added Tax
- Income Tax
- Repayments and Credit


## Data

- Correlation and Regression
- The Normal Distribution


## Geometry and Measure

- Similarity and Pythagoras'

Theorem

- Surface Area and Similarity

Finance

- Solutions to Financial Problems

Assessment: Year 12
Assessment Week 2 -
Cumulative Assessment

- Representing Data

Diagrammatically

- Correlation and Regression

Algebra

- Equation of a Straight Line


## Number

- Percentages
- Interest Rates

Geometry and Measure

- Perimeter, Circumference and Area

Data

- Collecting Data
- Sampling Data
- Representing Data Numerically

Algebra

- Use of Spreadsheets
- Numerical Calculations (Formulae)

Number
Limits of Accuracy

- Fermi Estimation

Assessment: Year 12
Assessment Week 1 -
Summative Assessment



