Stowmarket High School Mathematics Learning Journey

Stowmarket High School
• ACHIEVING SUCCESS TOGETHER •
RESPECT INTEGRITY SUCCESS EMPATHY

Pearson

Skills taught in Maths:
1. Problem solving and reasoning
2. Algebraic manipulation
3. Abstract thinking
4. Proportionality
5. Using and presenting data
6. Interpreting data and graphs
7. Spatial Awareness
8. Geometric understanding

Year 11

GCSE Exams

A level

BTEC courses and apprenticeships

T levels

FA4 – PRE exams

Algebraic proof (H)
Proportion(F)
Similarity (H)
Standard form (F)
Geometric proof (H)
Sequences (F)
Graphs
Transformations (H)
Percentage change (F)
Iteration (H)
Compound measures (F)
FA3 – Shadow Paper
Functions(H)
Vectors(F)
Inequalities
Statistical diagrams
Circle Theorems (H)
Probability
FA2 – PRE exams
Surface area & Volume (F)
Pythagoras' & Trigonometry
Angle problems
Simultaneous equations & Quadratics
Fractions – incl algebraic
Simplifying expressions
Formal Assessment 1
Surds & Factors/Multiples
Handling data - graphs
Expanding & Factorising
Laws of indices
FA5 – PRE exams
Rounding
Transformations
Proportion
Formal Assessment 4
Sequences
Handling data & Sampling
Ratio & Proportion
Algebraic Graph types
Formal Assessment 3
Compound measures
Real life graphs
Tree diagrams
Venn diagrams

Year 10

Transformations
FA5 – End of Year Assessment
Quadratics graphs
Similarity & Congruence
Vectors
Formal Assessment 4
Time, distance graphs
Compound measures
Linear graphs
Ratio & Proportion
Pythagoras' Theorem
3D shapes representation
Circles & Cylinders
Constructions
Angles & Bearings
Handling data
Repeated percentage change
Formal Assessment 1
Surface area & Volume
Simultaneous equations
Rearranging formulae
Formal Assessment 2
Constructions & Loci
Trigonometry
Linear graphs

Year 9

Formal Assessment 3
Rounding
Rearranging formulae
Solving quadratics
Formal Assessment 2
Linear inequalities
Probability
Formal Assessment 1
Standard form - calculations
FDP & Percentage change
Basic algebraic fractions
Algebra – using double brackets
Fractions & Recurring decimals
Inequalities
FA5 – End of Year Assessment
Statistical diagrams
Angle problems
Surface area & Volume
Transformations
Linear graphs
Formal Assessment 4

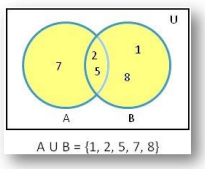
Year 8

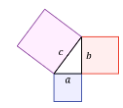
Percentage of amounts / % change
Calculating with money
Fractions, decimals & percentages
Formal Assessment 1
Laws of Indices
Linear sequences
Ratio & Scale diagrams
Formal Assessment 2
Rounding: significant figures
Areas & Units
Coordinates & Midpoints
Formal Assessment 3
Standard Form
3D shapes & nets
Venn diagrams
Circles: area & circumference
FA5 – End of Year Assessment
Proportionality
Probability
Solving equations
Charts, tables, collecting data
Algebra – using single brackets

Year 7

Formal Assessment 4
Averages & Range
Using angles
Fractions: simplifying & comparing
Coordinates and Shapes
FA3 - Mid-Year Assessment
Factors, Multiples & Primes
Perimeter & Area
2D shapes: lines and shape properties
Time and Measures
Equations: substitution and solving
Formal Assessment 2
Simplifying expressions
Number Sense and operations
FA1 - Baseline

welcome





$7245.3 = 7.2453 \times 10^3$

Digits — Power of 10

A Number — In Scientific Notation