Y10 MATHS

Yardleys School
WORKING TOGETHER FOR A BETTER FUTURE

MATHS AT YARDLEYS
INTENT: At Yardleys, we want our pupils to see Mathematics as a universal language that allows us conceptualise and communicate ideas clearly across the curriculum and beyond. Throughout our curriculum, we develop mathematicians that are empowered with the knowledge, attitude and strategies to reason, generalise and simplify complex problems into their composite parts. Our pupils are fluent in the key mathematical processes so that they may become flexible and creative problem solvers that are resilient when faced with challenges.
Y10 MATHS
Year 10 starts the KS4/GCSE curriculum. It uses prior knowledge from KS3 as a key starting point to introduce new topic areas. This idea of revisiting and "building on" is the rationale to the maths KS4 curriculum.

YEAR 10

SUBSTANTIVE KNOWLEDGE	- Basic Number, Factors & Multiples - Powers, Roots & Indices - Algebraic Fractions - Solving Linear Equations - Linear Graphs (y = mx + c) - Ratio & Proportion - Direct & Inverse Proportion - SURDS	- Rounding & Bounds - Perimeter, Circumference & Area - Congruence & Similarity - Volume of 3D Shapes (Volume – Cont'd) - Fractions & Decimals - Basic Percentages - Percentage Calculations - Probability (inc. Tree Diagrams)	- Scatter Graphs - Cumulative Frequency - Histograms - Averages from Tables - Pythagoras & - Basic Trigonometry (SOH CAH TOA) Speed & Compound Measures - Number Sequences (Linear & Non-Linear)
DISCIPLINARY KNOWLEDGE	Develop fluency Reason mathematically	Develop fluency Reason mathematically	Develop fluency Reason mathematically

We aim to provide students with a curriculum that educates the whole child, creating responsible and respectful citizens. Through the development of substantive and disciplinary knowledge students are given the tools that allow them to achieve excellence and be ready for life.