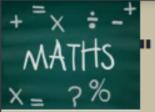


Spring: Algebra and Graphs **Mathematics** — **10 & 11 Higher 23-24** Gradients and lines Sketching and interpreting Spring quadratics and cubic graphs Autumn: Algebra **Proportional Reasoning Review** Changing the subject Spring: Geometry 10H Fractions Functions Vectors FDP **Iteration Review Transformations** Percentages (including Simple Expanding triple brackets Review Pythagoras' and Trigonometry in 3D $\frac{6}{10} + 0.3$ Interest, Compound changes and Review Solving Quadratics (by Review Volume, S.A and Similarity general % change) factorising, completing sq, formula) Ratio Review Forming and solving Summer 1: Proportion (Induding Best Buy, Simultaneous Equations **Review Statistics** Currency, including graphs of Review Equations of parallel and (Histogram, Box plot proportion and algebraically y=kx) perpendicularlines etc) Algebraic Fractions **Revision (exam Angles and Bearings Autumn** practice) Angles (basic facts, angles in 2. Number Review Bounds in parallel lines, angles in Examinations context polygons) Review - fractional **Bearings** and negative laws of indices Spring: Core Maths Surds Surds Recurring Decimals A Level Maths Simplifying Surds **Further Maths** Expanding brackets with surds Autumn **Rationalising surds** 1. Geometry Reasoning with right and non-right Circle Theorems angled Triangles Loci and Surface Pythagoras' Theorem constructions Understanding Trigonometry Circle Geometry Recognise Fluency Deep (including making connections with ratio (tangent and Reasoning and Trig) radius) Using Trig ratios (SOHCAHTOA) **Problem Solvin** Solve complex Using equilateral and right angled Geometry multi-stage triangles to find exact trig values Area and Sine and Cosine Rules Volume General Area of triangle rule Quadratics Pythag and Trig with Bearings Expanding and factorising (including when a is greater than 1) Trig graphs 2(x + 4)2x + 8Expanding triple brackets **Summer: Reasoning with Graphs** Solving by factorising Linear graphs (including eq of graphs for parallel and perpendicular • Completing the square and solve by completing the square Quadratic formula lines), Graphing rates of change 100 % 40 % Simultaneous Equations (Linear and quadratics) Real-life graphs, Line segments 140% Inequalities (linear and quadratics) Quadratic graphs, Cubic and reciprocal graphs,



"BUILDING YOUR LONG TERM MEMORY IN MATHS"



BELL WORK BOOKLET

 FILLS THE GAPS WE IDENTIFIED IN YOUR KNOWLEDGE FROM YOUR ASSESSMENTS (DIAGNOSTICS & SYNOPTICS)

-GIVES YOU REPEATED PRACTICE OF THE SAME CONCEPTS OVER A PERIOD OF TIME

-HELPS YOU MASTER TOPICS
I.E BECOME FLUENT BY BEING ABLE
TO SOLVE MATHS PROBLEMS WITH
GREATER ACCURACY & SPEED

MATHS LESSONS

MATHS LEARNING JOURNEY / SCHEME OF WORK

-TOPICS ARE SEQUENCED SO THAT IT HELPS YOU MAKE BETTER CONNECTIONS BETWEEN CONCEPTS

STRUCTURE OF YOUR LESSONS

-MODEL EXAMPLES DONE BY YOUR TEACHER (INPUT / I DO)

APPLICATION - YOU GET TO PRACTICE THE SKILL

FEEDBACK - YOUR TEACHER HELPS YOU UNDERSTAND THE CORRECT PROCESS IN SOLVING THE MATHS PROBLEMS. GREEN PEN / RED PEN

WHOLE CLASS FEEDBACK

GIVES YOUR ENTIRE CLASS A CHANCE TO
REVIEW TOGETHER YOUR STRENGTHS &
COMMON ERRORS OR MISCONCEPTIONS

MATHS HOME LEARNING

-HW TASKS ALLOW YOU TO PRACTICE CONCEPTS LEARNT LAST YEAR - LAST TERM - LAST MONTH - LAST TWO WEEKS

(SPACED LEARNING HELPS YOU RETAIN INFORMATION LONGER AND WITH GREATER ACCURACY & SPEED)



HOME WORK. We use SPARX
MATHS – this is a very good
platform to help you SUCCEED at
maths!
WEEKLY TASKS! 100% completion