

Maths @ St Paul's

My Personal GCSE Revision Tracker

Higher

Use this to record your revision successes and
targets from each revision booklet

Name: _____

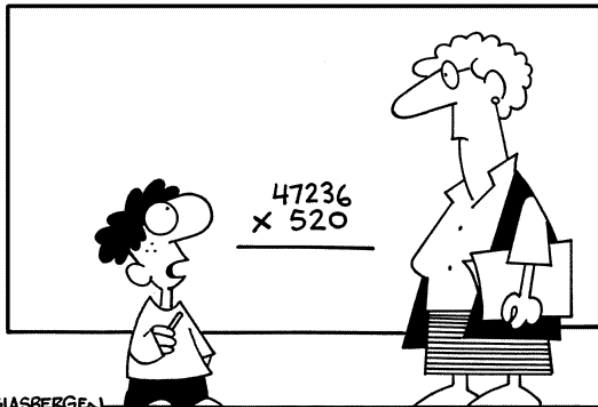
Teachers Name: _____

Stuck?

Help is at hand!!!!

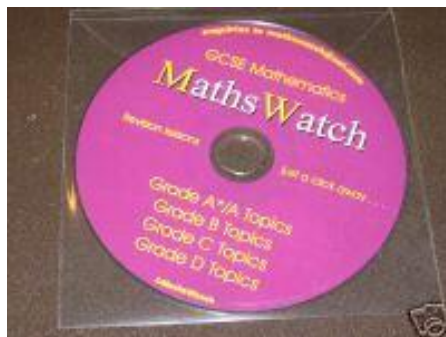
Ask your teacher

Buy a revision pack
£7



"Aren't there enough problems in the world already?"

Buy a mathswatch DVD
£4



Look on the internet or
in your books

Ask your parents

Ask a friend



Teacher Marking

1: Excellent – may be a few small slips but work shows a solid understanding.

2: Homework shows that some aspects have been understood but others have not.

3: Homework shows many key misconceptions or a poor effort.

Topic 1: Number Concepts

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	E → C	Basic Number			
B	C	Deriving Unknown Facts			
C	E → C	Problem Solving			

Topic 2: Factors, Multiples and Primes

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	E → C	Factors, Multiples and Primes			
B	C / B	Prime Factor Decomposition, HCFs and LCMs			

Topic 3: Simplifying and Substitution

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	F / E	Substitution			
B	D / C	Expanding and Simplifying			
C	D → A	Factorising			
D	A / A*	Algebraic Fractions			

Topic 4: Solving Equations

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	F → C	Solving Simple Linear Equations			
B	C	Forming and Solving Equations			
C	B → A*	Solving Harder Equations with Fractions			

Topic 5: Fractions and Decimals

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	F	Fractions, Equivalence and Amounts			
B	D → B	+ - × ÷ Fractions			
C	D → B	Worded Problems			
D	A / A*	Converting Recurring Decimals to Fractions			

Topic 6: Percentages

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	E → C	Finding the New Amount			
B	C	Finding the Percentage Change			
C	B	Finding the Original Amount			
D	B / A	Repeated Percentage Changes			

Topic 7: Standard Form

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	B	Understanding Standard Form			
B	B / A	+ - × ÷ Using Standard Form			
C	A	Problem Solving Using Standard Form			
D	B / A	Standard Form Using a Calculator			

Topic 8: Probability

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	F → D	Calculating Probabilities and Listing Outcomes			
B	F → C	Relative Frequency and Expectation			
C	B → A*	Tree Diagrams			
D	B → A*	Problem Solving Using Probability			

Topic 9: Powers and Roots

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	F → C	Squares, Cubes, Roots and Index Notation			
B	D / C	Using Index Laws			
C	C → A*	Using Harder Index Laws			
D	E → C	Using your Calculator			

Topic 10: Perimeter, Area and Volume

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	E → C	Finding area			
B	A	Area of non right-angled triangles			
C	C → A	Volume and surface area			

Topic 11: Straight Line and Real Life Graphs

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Plotting Straight Line Graphs			
B	C / B	$y = mx + c$			
C	B / A	Parallel and Perpendicular Lines			
D	D / C	Real Life Graphs			

Topic 12: Ratio

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Sharing Amounts in a Given Ratio			
B	D → B	Problem Solving Using Ratio			
C	D	Best Buys			

Topic 13: Collecting Data

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Data Collection			
B	D / C	Two Way Tables			
C	C → A	Random and Stratified Sampling			

Topic 14: Averages and Measures of Spread

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	E → B	Statistics from Raw Data			
B	B / A	Statistics from Tables			

Topic 15: Rearranging Formulae

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Formulae and Substitution			
B	D → B	Rearranging – Subject Appears Once			
C	B / A	Rearranging – Subject Appears Twice			

Topic 16: Pythagoras and Trigonometry

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	C	Pythagoras' theorem			
B	C / B	Co-ordinates			
C	B	Trigonometry – finding lengths			
D	B	Trigonometry – finding angles			
E	A / A*	Trigonometry in 3D			
F	A / A*	Problem solving using Pythagoras and trigonometry			

Topic 17: Quadratic Equations

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Plotting straight line graphs			
B	C	Quadratic graphs			
C	A / A*	Using an appropriate linear graph			
D	B / A	Factorising and Solving Quadratics			
E	A / A*	Quadratic Formula			
F	A / A*	Completing the Square			
G	A → A*	Quadratic Problem Solving			

Topic 18: Circles

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Circumference and area of circles			
B	A / A*	Arc length and sector area			
C	C → A	Cylinders			
D	A / A*	Cones			
E	A / A*	Spheres			
F	A / A*	Problem solving			

Topic 19: Angles and Polygons

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	F → D	Angle facts			
B	C	Angles and parallel lines			
C	C	Angles in polygons			
D	C / B	Geometric proofs			

Topic 20: Simultaneous Equations

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	B / A	Linear Simultaneous Equations			
B	A*	One Linear and One Quadratic Simultaneous Equations			

Topic 21: Sequences

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Using the n^{th} Term Formula			
B	B \rightarrow A*	Problem Solving Using Sequences			

Topic 21A: Revision of Percentages

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D \rightarrow A	Non-Calculator Percentage Problems			
B	D \rightarrow A	Calculator Percentages Problems			

Topic 22: Displaying and Interpreting Data

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	E \rightarrow C	Pictograms, Bar Charts and Frequency Diagrams			
B	D / C	Pie Charts			
C	D / C	Stem and Leaf Diagrams			
D	B / A	Scattergraphs			
E	B	Cumulative Frequency and Box Plots			
F	A / A*	Histograms			

Topic 22B: Simplifying and Substitution Revision

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D → B	Simplifying			
B	D → A	Factorising algebraic expressions			
C	A / A*	Algebraic Fractions			

Topic 23: Solving Equations and Trial and Improvement

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D → B	Solving linear equations			
B	A	Solving linear equations with fractions			
C	C	Trial and improvement			

Topic 24: Inequalities

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Solving Linear Inequalities			
B	B	Shading Regions			

Topic 25: Approximations

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	E → C	Rounding			
B	C	Estimating			
C	C	Upper and Lower Bounds			
D	B → A*	Problem Solving Using Bounds			

Topic 26: Surds

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	B / A	Simplifying Expressions Involving Surds			
B	A*	Expanding Brackets Involving Surds			
C	A / A*	Rationalising The Denominator			
D	A*	Problem Solving Using Surds			

Topic 27: Transformations

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Translations			
B	G → D	Reflections			
C	D / C	Rotations			
D	C → A	Enlargements			
E	D → A	Transformations			

Topic 27C: Real Life Graphs

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	E / D	Conversion graphs			
B	D / C	Distance-time and speed-time graphs			
C	D / C	Other real life graphs			

Topic 28: Measures and Speed Distance Time

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Converting units			
B	D / C	Speed			
C	B	Density			

Topic 29: Shapes, solids and symmetry

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	E	Solids			
B	D	Plans and elevations			
C	F / E	Nets			
D	F	Symmetry			

Topic 30: Proportionality

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	A	Direct proportion			
B	A*	Indirect proportion			

Topic 41: Loci and Constructions

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Constructing shapes			
B	D / C	Four constructions			
C	C	Loci			

Topic 32: Congruence and Similarity

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	E / D	Congruency			
B	D / C	Similar shapes			
C	A / A*	Similar solids			
D	A / A*	Proving congruency			

Topic 33: Circle Theorems

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	$B \rightarrow A^*$	Finding missing angles			
B	A / A*	Explanation of missing angles			
C	A / A*	Proof			

Topic 34: Trigonometry 2 and Bearings

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	C	Bearings			
B	A	Sine rule			
C	A	Cosine rule			
D	A / A*	Problem solving			
E	A	Solving trig equations using trig graphs			

Topic 35: Transformations of Graphs

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	A*	Transformations of graphs			
B	A*	Transformations of trig graphs			
C	A	Shapes of graphs			

Topic 36: Vectors

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	A / A*	Finding vectors			

Topic 37: Functional Number

H/w	Grade	Objectives	Completed (Date)	Teacher Assessment	Your Target
A	D / C	Currency conversions			
B	D / C	Upper and lower bounds			
C	B → A*	Limits of accuracy			
D	D → B	Functional number questions			

