Bishop Challoner Catholic College
Maths Department

Year 10 Mock Higher Revision List

You will be undertaking your end of year assessments during May and June. The papers are designed to mostly test your learning from September of Year 10, but will also require you to recall knowledge from Key Stage 3. The assessments will be similar in format to GCSE papers, and therefore there will also be topics that you may not yet have covered that will appear in the papers. This is intentional, and is designed so that you can receive an accurate reflection of your current working grade. Teachers will use your scores to help form a judgement about your progress in the GCSE course, and your scores will be reported home.

Paper 1 (Non-calculator): **Monday 20th May (auditorium) – 1 hour 30 minutes (80 marks)**
Paper 2A (Calculator): **Wednesday 22nd May – 50 minutes (40 marks)**
Paper 2B (Calculator): **Thursday 23rd May – 50 minutes (40 marks)**
Paper 3 (Calculator): **Tuesday 18th June (auditorium) – 1 hour 30 minutes (80 marks)**

It is recommended that you use your class notes, Mathswatch, corbettmaths and revision guides to help with your revision. Below are the clips that are relevant to the topics that are to be tested.

Reminder: MathsWatch is at **www.vle.mathswatch.co.uk**
Your username is the same as your **mymaths username @bishopchalloner**
Your password is **bishop**

When you log in, click on Videos. Ensure that you have selected qualification as 'GCSE' and then search for each topic using the topic titles provided below.

Other useful websites:
https://corbettmaths.com/contents/
Use this website for worksheets and worked solutions on various different topics.

Algebra

Topic	Mathswatch?	Corbett maths?
Algebraic manipulation		
Expanding brackets		
Factorising		
Substitution		
Expanding and simplifying, including quadratics and algebraic fractions		
Solving linear equations		
Rearranging formulae		
Factorising and solving quadratics (including the difference of two squares)		
Drawing and using quadratic graphs		
Forming algebraic expressions and equations		

Topic		
Solving inequalities		
Equations of straight line graphs		
Simultaneous equations (linear, quadratic and graphical)		
Nth Term of sequences (linear and quadratic)		
Algebraic proof		
Trigonometric graphs		
Speed-time graphs and distance-time graphs		
Quadratic inequalities		
Functions (composite)		

Number, Ratio & Proportion

Topic	Mathswatch?	Corbett maths?
Multiplying and dividing integers		
Adding, subtracting, multiplying & dividing decimals		
Adding, subtracting, multiplying & dividing fractions		
Ordering fractions, decimals and percentages		
Recurring decimals to fractions		
Percentages of amounts		
Increase/decrease by a percentage		
Percentage change including percentage profit		
Reverse percentage problems		
Compound interest and depreciation		
Ratio (sharing in a given ratio)		
Proportion (including recipe questions and value for money)		
Direct and inverse proportion		
Similar shapes (linear/area/volume scale factors)		
Factors, multiples and primes (including LCM and HCF)		
Powers/Indices (negative/fractional) and reciprocals		
Rounding and estimating to decimals/significant figures		
Standard Form		
Bounds including calculations		
Compound measures		
Exchange rates		
Surds		
Iteration		

Statistics, Geometry & Probability

Topic	Mathswatch?	Corbett maths?
Averages & range		
Averages from frequency tables		
Pie Charts		
Stem and Leaf Diagrams		
Frequency polygons		
Scatter Diagrams		
Stratified Sampling		
Cumulative Frequency Diagrams		

Box Plots		
Histograms		
Angles in Parallel Lines		
Angles in Polygons		
Areas and Perimeters of 2D Shapes (including circles)		
Volumes of cuboids and prisms		
Transformations including reflection, rotation, translation		
Enlargements (negative/fractional)		
Vector notation		
Pythagoras' Theorem		
Probability Tree Diagrams		
Experimental and theoretical probability		
Venn Diagrams		
Nets, plans and elevations		
Surface area of 3D shapes (including pyramids)		
Circle theorems		
Trigonometry (right angle including 3D)		
Trigonometry (sine rule, cosine rule, area of a triangle)		
Congruency proof (triangles)		