



Preparing for A Level Further Mathematics at Wyke

We know that you will want to be as prepared as possible for starting the A Level Further Mathematics course. To help you with this, we suggest that you make sure you are confident with all the topics from Higher GCSE. Below is a checklist of suggested topics which will be very useful in A Level Mathematics and A level Further Mathematics, and where they can be found on the Corbett Maths website.

The video clips and practice questions can be found here: <https://corbettmaths.com/contents/>

The answers for the practice questions are here: <https://corbettmaths.com/2015/03/13/worksheet->

Topic	Clip number	Tick when happy with this topic ✓
Algebra: changing the subject advanced	8	
Algebra: completing the square	10	
Algebra: equation of a circle	12	
Algebra: expanding two brackets	14	
Algebra: expanding three brackets	15	
Algebraic fractions: addition	21	
Algebraic fractions: division	22	
Algebraic fractions: multiplication	23	
Algebraic fractions: simplifying	24	
Circles: arc length	58	
Circles: segment area	63	
Circle theorems	64	
Equations: involving fractions	111	
Equations: fractional advanced	111a	
Equations: cross multiplication	112	
Factorisation: quadratics	118	
Factorisation: quadratics harder	119	
Factorisation: splitting the middle	119a	
Factorisation: difference of 2 squares	120	
Indices (numerical)	172	
Indices: fractional	173	
Indices: laws of	174	
Indices: negative	175	
Inequalities: solving (one sign)	178	
Inequalities: solving (two signs)	179	
Inequalities: regions	182	
Linear graphs: length of a line	185	
Linear graphs: gradient of a line	189	
Linear graphs: gradient between points	190	
Linear graphs: $y=mx+c$	191	
Linear graphs: find equation of a line	194	
Linear graphs: equation through 2 points	195	
Linear graphs: parallel lines and perpendicular lines	196, 197	
Linear graphs: midpoint of a line	198	

[answers/](#)

Topic	Clip number	Tick when happy with this topic ✓
Pythagoras	257	
Pythagoras on a graph	258	
Quadratic graphs: sketching using key points	265	
Quadratics: solving (factorising)	266	



Quadratics: formula	267	
Quadratics: solving (completing the square)	267a	
Sequences: nth term	288	
Sequences: nth term for fractional sequences	289	
Simultaneous equations (elimination)	295	
Simultaneous equations (substitution, both linear)	296	
Simultaneous equations (graphical)	297	
Simultaneous equations (advanced)	298	
Surds: intro, rules, simplifying	305	
Surds: addition/subtraction	306	
Surds: rationalising denominators	307	
Surds: expanding brackets	308	
Transformations of graphs	323	
Transformations of trigonometric graphs	324	
Trigonometry missing sides	330	
Trigonometry missing angles	331	
Trigonometry: sine rule (sides)	333	
Trigonometry: sine rule (angles)	334	
Trigonometry: sine rule (ambiguous case)	334a	
Trigonometry: cosine rule (sides)	335	
Trigonometry: cosine rule (angles)	336	
Trigonometry: area of a triangle	337	
Trigonometry: Sine graph	338	
Trigonometry: Cosine graph	339	
Trigonometry: Tangent graph	340	
Trigonometry: Exact values	341	
Types of graph: cubics	344	
Types of graph: exponential	345	
Types of graph: reciprocal	346	
Vectors	353	
Vectors: Column	353a	