

A Level Maths Year 11-12 Transition Work



This is the transition work if you want to take A-level Maths – if you would like to take Further Maths A-level too you need to complete a different task in the folder.

- The list of tasks below need to be completed on Hegarty by **18th May 2020**.
- If you have forgotten your login please email Miss Bushell or Miss Hibbert.
- These tasks will not come up on your set tasks so you need to type them into the search bar individually to complete.
- Make sure that you save all tasks once completed and that you get above 90% in every task. Use the videos if you are stuck.
- Even if you have got 100% in a task previously, it still needs to be completed again – this is to keep you mathematically fluent for next year.
- The Hegarty Maths website has 180 tasks in their Transition Course – I've picked the 40 most important!

Looking forward to seeing you all next year!!



Number

Topics	Clip Number	R	A	G
Indices, powers & roots				
Index form 9 (combination of rules)	110			
Multiplication & division with surds 1	113			
Multiplication & division with surds 2	114			
Simplifying surds	115			
Brackets involving surds 1	116			
Brackets involving surds 2	117			
Rationalising surds 1	118			
Rationalising surds 2	119			
Order of operations 3 (indices & roots)	120			

Algebra

Topics	Clip Number	R	A	G
Manipulating expressions				
Expand brackets (difference of two squares)	165			
Expand triple brackets	166			
Simplifying expressions by factorising 2	171			
Linear equations				
Solve equations with x on both sides 3	186			
Solve equations with algebraic fractions	187			
Simultaneous equations by elimination 4	193			
Linear sequences and graphs				
Straight line graphs (perpendicular) 2	216			
Straight line graphs (alternative way to define)	220			
Quadratics				
Factorise quadratic expressions 4	226			
Factorise quadratic expressions 5	227			
Factorise quadratic expressions 6	228			
Simplify algebraic fractions (involving quadratics)	229			
Completing the square 1	235			
Completing the square 2	236			
Completing the square 3	237			
Solving quadratic equations 2 (by factorising)	231			
Solving quadratic equations 3 (by factorising)	232			
Solving quadratic equations 4 (by factorising)	233			
Solving quadratic equations 5 (inverse operations)	234			
Solving by completing the square 2	239			
Solving using the quadratic formula 2	242			
Quadratic equations from algebraic fractions	244			
Simultaneous equations involving quadratics	246			
Manipulating powers 2	791			
Manipulating powers 3	792			
Manipulating powers 4	793			
Manipulating powers 5	794			
Manipulating powers 6	795			
Solving quadratic inequalities	277			
Change the subject of the formula 6 (x on both sides)	285			
Change the subject of the formula 7 (x on both sides/denominator)	286			