

Y12 Mathematics Transition Work

As you transition from Year 11 to Year 12, it is very important to refresh your memory on certain mathematical skills. Moreover, it is vital that you have a sound understanding of some more difficult skills.

In the table below, you will find the skills that you should be confident with as you start Year 12.

You must get at least 75% on each of the Hegarty Maths tasks below and remember to use the videos (or other resources) if you find the work challenging.

The table of topics below is the work that must be completed by the first day back in Year 12.

Topic	Skill	Hegarty Task
Indices, Powers & Roots	Index form 7	108
	Index form 8	109
	Multiplication & division with surds 2	114
	Simplifying surds	115
	Brackets involving surds 2	117
	Rationalising surds 2	119
Manipulating expressions	Factorise simple expressions 2	169
	Simplifying expressions by factorising 2	171
	Indices with algebraic expressions 3	175
	Change the subject of a formula 7	286
Linear Equations	Solve equations with algebraic fractions	187
	Simultaneous equations (elimination)	193
	Simultaneous equations (substitution)	194
	Simultaneous equations in context	195
Quadratics	Factorise quadratic expressions 6	228
	Simplify algebraic fractions (involving quadratics)	229
	Solving quadratic equations 4 (by factorising)	233
	Solve by completing the square 2	239
	Solve using the quadratic formula 2	242
	Quadratic equations from algebraic fractions	244
	Simultaneous equations involving quadratics	246
	Solving quadratic inequalities	277
Shape & Space	Pythagoras (applied)	502
	Trigonometry (multi-step 2)	514

For those of you who wish to be thoroughly prepared, you are more than welcome to have a look at the full recommended list which can be found at:

<https://s3-eu-west-1.amazonaws.com/aws-hegartymaths/resources/HegartyMaths Year 12 transition skills.pdf>

(To confirm, you only have to complete the work that is outlined in the above table.)