

Yr 10 Mathematics Revision Checklist

The exam is going to consist of three, one-hour papers, one of which will be non-calculator. You will be examined on the content you have met from year 10 and previous years.

Students that are in a set 1 or extension group will be sitting a higher tier paper. Students in all other sets will sit a foundation tier paper.




For each tier, we have included a list of topics to revise. For each topic, we have included a Corbett Maths video reference that will provide you some support with the topics you are unsure of. You will be able to find the videos here:

www.corbettmaths.com/contents

You may also find working through some practice papers beneficial but please note these may include year 11 topics that you have not covered yet.

<https://corbettmaths.com/2019/04/01/gcse-practice-papers/>




Higher Tier Checklist

<u>Topic</u>	<u>Video</u>			
<u>NUMBER</u>				
Adding fractions	133			
Multiplying fractions	142			
Dividing fractions	134			
Estimation	215			
Best buys	210			
Currency	214a			
Conversion graphs	151,152			
Lowest common multiple and highest common factor	218, 219			
Indices	172, 174			
Indices (fractional/negative)	173, 175			
Standard form	300 to 303			
Percentages of amounts	234, 235			
Percentage change	233			
Compound interest	236			
Reverse percentages	240			
Recurring decimals to fraction	96			
Ratio	270, 271, 271a, 271b & 271c.			
Direct proportion	254			
Inverse proportion	255			
Product rule for counting	383			
<u>ALGEBRA</u>				
Collecting like terms	9			
Expanding a bracket	13			
Expanding 2/3 brackets	14, 15			

Factorising	117			
Factorising quadratics	118,119, 120			
Algebraic fractions	21 to 24			
Sequences nth term	288, 289			
Substitution	20			
Solving equations	110, 113, 114, 115			
Changing the subject	7, 8			
Inequalities	177, 178, 179			
Quadratic inequalities	378			
Simultaneous equations	295, 298			
Composite functions	370			
Inverse functions	369			
Quadratic formula	267			
Completing the square	10, 371			
Iteration	373			
GEOMETRY				
Angles in parallel lines	25, 39			
Bearings	26, 27			
Angles in polygons	32			
Constructions	78, 72, 79, 80, 70			
Loci	75, 76, 77			
Pythagoras	257, 259			
Translations	325			
Reflections	272			
Rotations	275			
Enlargements	104, 106, 107 & 108			
Similar shapes	292, 293, 293b			
Circle theorems	64, 65			
Travel graphs	171			
Speed, distance, time	299			
Density	384			
Pressure	385			
Geometric proof	366			
Congruent triangles	67			
Invariant points	392			
STATISTICS & PROBABILITY				
Frequency trees	376			
Two-way tables	319			
Pie charts	163, 164			
Scatter graphs	165, 166			
Histograms	157 to 159			
Frequency polygons	155, 156			

Stem and leaf	169, 170			
Cumulative frequency	153, 154			
Box plots	149			
Estimated mean	55			
Tree diagrams	252			
Conditional probability	247			
Capture-recapture	391			
Venn diagrams	380			

Foundation Tier Checklist

<u>Topic</u>	<u>Video</u>			
<u>NUMBER</u>				
Multiplication	199, 200			
Division	98			
Addition	6			
Subtraction	304			
Rounding	276 to 278			
Estimation	215			
Using calculations	222a			
BIDMAS	211			
Ordering decimals/fractions	90 to 94			
Multiples and factors	220, 216			
Prime numbers	225			
Square numbers and square roots	226, 228			
Cube numbers and cube roots	212, 214			
Product of primes	223			
Lowest common multiple and highest common factor	218, 219			
Indices	172, 174			
Negative indices	175			
Standard form	300, 302, 303			
Fractions of amounts	137			
Adding fractions	133			
Multiplying fractions	142			
Dividing fractions	134			
Fractions, decimals and percentages	121 to 129			
Percentages of amounts	234, 235			
Compound interest	236			
Reverse percentages	240			
Ratio	270, 271, 271a, 271b & 271c.			
Currency	214a			
Recipes	256			
Negative numbers	205-209			

Place value	222			
Function machine	386			
Best buys	210			
Proportion	255a, 254			
Use of a calculator	352			
<u>ALGEBRA</u>				
Coordinates	84			
Writing expression	16			
Collecting like terms	9			
Multiplying terms	18			
Sequences	286, 287, 290			
The nth term	288			
Expanding brackets	13, 14			
Factorising	117			
Factorising quadratics	118, 120			
Solving equations	110, 113			
Forming equations	114, 115			
Inequalities	117 to 179			
Conversion graphs	151			
Substitution	20			
Changing the subject	7			
Simultaneous equations	295			
<u>GEOMETRY</u>				
Angle facts	35,20, 34, 39			
Types of angle	38			
Angles in parallel lines	25			
Angles in a triangle	37			
Angles in a quadrilateral	33			
Angles in polygons	32			
Bearings	26, 27			
Units	347, 349			
Line symmetry	316			
Rotational symmetry	317			
Constructions	72, 78, 83			
Loci	75 to 77			
Faces, edges, vertices	5, 3			
Views and elevations	354			
Speed, distance, time	299			
Density	384			
Pressure	385			
Timetables	320			
Distance charts	318			
Translations	325, 326			
Reflections	272, 273			
Rotations	275			

Enlargements	104, 105, 107			
Parts of the circle	61			
Similar shapes (sides)	292			
Congruent shapes	67			
Nets	4			
<u>STATISTICS & PROBABILITY</u>				
Frequency trees	376			
Two-way tables	319			
Pictograms	161, 162			
Bar charts	147, 148			
Frequency polygons	155, 156			
Line graphs	160			
Pie charts	163, 164			
Probability	245, 246, 248			
Listing outcomes	253			
Scatter graphs	165 to 168			
Stem and leaf	169, 170			
Mode	56			
Median	50			
Mean	53			
Range	57			
Estimated mean	55			
Venn diagrams	380			
Tree diagrams	252			
Reading tables	387			