

REVISION LIST FOR MODULE 5

Topic	Details	Chapter	Questions to ask in class.	Review Exercise Completed
Introduction to algebra	Algebra Expression and terms Simplifying expressions x and \div algebraic expressions with powers Brackets Factorising	10		
Solving Equations	Solving equations The balance method Equations with brackets Equations with letters on both sides Equations with fractions Writing equations	11		
Formulae	Writing expressions and formulae Using formulae Substitution into formulae with powers and roots Solve problems by rearranging formulae	12		

Topic	Details	Chapter	Questions to ask in class.	Review Exercise Completed
Quadratic Equations	Brackets More brackets Factorising Solving quadratic equations – 3 algebraic methods	19		
Pythagoras' theorem	Checking the theorem of Pythagoras Finding the hypotenuse Finding one of the shorter sides Problems involving Pythagoras' theorem	28		
Circle properties	Circles Circle properties Tangents Alternate segment theorem Geometrical proofs	24		

Topic	Details	Chapter	Questions to ask in class.	Review Exercise Completed
More or Less (Inequalities)	Inequalities Number lines Solving inequalities Multiplying(or dividing) and inequality by a negative number Graphs of inequations Regions Inequalities involving sloping lines	17		
Trigonometry	Trigonometry sin/cos/tan rules Angles of elevation and depression Three figure bearings Problems in 3D The angle between a line and a plane	29		
Further Trigonometry	The trig graphs Finding angles between 0° and 360° . The sine rule The cosine rule Area of a non right angles triangle Solving problems with triangles.	34		

Topic	Details	Chapter	Questions to ask in class.	Review Exercise Completed
Sequences	Continuing a sequence Using rules Number Sequences Sequences of numbers from shape patterns Special sequences of numbers	14		
Volumes and Surface Areas	3D shapes Making and drawing 3D shapes Naming parts of a solid shape Plans and elevations Volume Volume of a cuboid Volume of a prism Volume and surface area of a cylinder	30		
Vectors	Vectors and scalars Vector notation Equal vectors Vectors in opposite directions Multiplying a vector by a scalar Vector addition Vector diagrams Vectors and geometry	33		

Topic	Details	Chapter	Questions to ask in class.	Review Exercise Completed
Further Graphs	Further graphs Using graphs to solve equations Cubic/Reciprocal/Exponential graphs Graphs of circle (<i>sim. Eq. circle meets line</i>)	18		
Transforming graphs	Translating Stretching Function notation Reflecting Using a graph to find relationships Linear functions Non-linear functions	22		
Straight line graphs	Straight line graphs Drawing a graphs from a rule Special graphs Gradient and intercept Perpendicular lines Rearranging equations	15		

Topic	Details	Chapter	Questions to ask in class.	Review Exercise Completed
Simultaneous equations	Using graphs to solve simultaneous equations Simultaneous equations with no solution The elimination method Further use of the elimination method The substitution method Solving problems using simultaneous equations	20		
Loci and Constructions	Following rules Locus Accurate constructions	26		
Algebraic methods	Simplifying expression Identities Algebraic fraction Trial and improvement	21		

Topic	Details	Chapter	Questions to ask in class.	Review Exercise Completed
Transformations	Reflections/Rotations/Translation Enlargement/Using a centre of enlargement Using a negative scale factor Describing transformations Combinations of transformations	27		
Similar Figures	Enlargement Similar figures Similar triangles Showing that two triangles are similar Lengths, areas and volumes of similar figures Scale factors for length, area and volume	32		

Topic	Details	Chapter	Questions to ask in class.	Review Exercise Completed
Angles, parallel lines and Polygons	Types and names of angles Lines and angles Parallel lines Types of triangle The sum of the angles in a triangle Special triangles and quadrilaterals Line/rotational symmetry Interior and exterior angles of a polygon Sum of the interior angles of a polygon Sum of the exterior angles of a polygon Regular polygons Exterior angles of a regular polygon Tessellations	23		
Using graphs	Real life situations Distance-time graphs Speed-time graphs	16		