Subject: Mathematics Lead Teacher: Mr Heighway Year: 8 Curriculum organisation Students are taught in form groups of 28 students for three lessons per week. What topics will your daughter be studying this year? Autumn Term • Algebra – simplifying corputae, simultaneous equations, straight line graphs •	Ν	lewport Girls' High School	Learning Overview	
Sudents are taught in form groups of 28 students for three lessons per week. How will your daughter be studying this year? What topics will your daughter be studying this year? How will your daughter be learning? Autumn Term Algebra – simplifying expressions, factorising quadratice, solving linear equations, straight line graphs Number – index laws, fractions, directed number Shape – Pythagoras' Theorem, trigonometry, circle mensuration Probability Data – averages from raw and grouped data, cumulative frequency diagrams, box plots Summer Term Algebra – solving inequalities, reasoning and proof, solving quadratice, solving tasks Number – surds Number – surds Shape – cricle theorems, volume and surface area, 3D representations Data – averages from raw and grouped data, cumulative frequency diagrams, box plots Mage – averages from taw and grouped data, cumulative frequency diagrams, box plots Mage – similar shape shape Shape – price averages from taw and grouped data, cumulative frequency diagrams, box plots Mage – averages from taw and grouped data, cumulative frequency diagrams, box plots Mage – averages from taw and grouped data, cumulative frequency diagrams, box plots Mage – averages from taw and grouped data, cumulative frequency diagrams, box plots Mage – averages from taw and grouped data, cumulative frequency diagrams, box pl	Subject: Mathematics	Lead Teacher:	Mr Heighway	Year: 8
What topics will your daughter be studying this year?How will your daughter be learning?Autumn TermSpring TermSummer Term• Whole class discussion• Algebra – simplifying expressions, factorising quadratics, solving linear equations, straight line graphs• Algebra – rearranging and applying formulae, simultaneous equations, straight line graphs• Algebra – rearranging and applying formulae, simultaneous equations, sequences equations, straight line graphs• Mumber – ratio, rounding decimal places and significant figures, percentages• Mumber – surds and loci, angles, polygons and bearings• Number – surds and loci, angles, polygons and bearings• Number – surds and loci, angles, polygons and bearings• Number – surds and loci, angles, polygons and grouped data, cumulative frequency diagrams, box plots• Shape – similar shapes, shape representations• Shape – similar shapes, shape and surface area, 3D representations• Worksheets • Worksheets	Curriculum organisation Students are taught in form groups of 28 stu	idents for three lessons per week.		
	 What topics will your daughter be study Autumn Term Algebra – simplifying expressions, factorising quadratics, solving linear equations, straight line graphs Number – index laws, fractions, directed number Shape – Pythagoras' Theorem, trigonometry, circle mensuration Probability 	 ing this year? Spring Term Algebra – rearranging and applying formulae, simultaneous equations, sequences Number – ratio, rounding decimal places and significant figures, percentages Shape – similar shapes, shape transformations, construction and loci, angles, polygons and bearings Data – averages from raw and grouped data, cumulative frequency diagrams, box plots 	 Summer Term Algebra – solving inequalities, reasoning and proof, solving quadratic equations, algebraic fractions Number - surds Shape – circle theorems, volume and surface area, 3D representations 	 How will your daughter be learning? Whole class discussion Paired work Worksheets Problem-solving tasks

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Equipment needed for lessons	What can you do to support your daughter?
Standard school stationery	• Mymaths.co.uk has lessons and practice questions to work through which
• Calculator	can be done independently at home
Pair of compasses	

How will learning be assessed and progress measured?	Extension & Enrichment opportunities
Students will peer-mark some exercises	Junior maths challenge
• Half termly tests	Team maths challenge
Homework tasks will be marked using the NGHS Marking Policy	

If you have any questions about this Learning Overview, please contact the named Teacher above.