Dene Magna Mathematics Department

Mathematics Teachers of Year 11

- Elaine Turner (Head of Maths)
- Paul Manns (Deputy Head of Maths)
- Steven Jones
- Ashley James
- Gemma Laskey
- Rhiannon Ray

Celebration Time

- 2017 results were the best results Dene Magna has ever achieved.
- 81.3% of students achieved grade 4 or better. This is the grade that students need for entry to college, most sixths forms, apprenticeships or employment.
- Students made Outstanding Progress

Exam Board

- AQA
- Link to past papers and mark schemes
- <u>Click here for exam board past papers and mark</u>
 <u>schemes</u>

www.vle.mathswatch.com student school Internet based revision, assignments login Videos, worksheets and answers @denemagna volume **MathsWatch** Craig's account Mv Work Videos Extras 20 days until renewa 11 ET box plots ILT Overview Question Progress Homework Progress Median is 58 15 / 15 Marks Ŧ marks This box plot shows information about the marks scored in a test. b) **I.R.** is 38 Ð marks Range is 76 Ð marks 20 30 40 50 60 70 80 90 100 0 10 Points scored What was the median number of marks scored? a) What was the interguartile range of the marks? b) What was the range of the marks? c) View One Minute Version Overview Boxplots 11 ET box plots ILT Clip 187 WATCH the clip then do the assigment

BOXPLOTS

MathsWatch list of clips

🚱 MathsWatch - Revision	lessons just a click away	🚱 MathsWatch - Revis	sion lessons just a click away	MathsWatch - Revision lessons just a click away		
		Grade 2		Grade 3		
Subject Content Pli Number Or Algebra Proportion, Rates of Change Ratio, Proportion, Rates of Change Int Geometry and Measures Int Probability and Statistics Sir Grades that will be examined: Sir Higher 1 2 3 4 5 6 7 9 Foundation 1 2 3 4 5 1 <t< td=""><td>Grade 1 acs Value</td><td>Gra Adding Integers and Decimals 17 Subtracting Integers and Decimals 18 Multiphying Integers 20 Dividing Integers 20 Inverse Operations 21 Money Questions 21 Money Questions 22 Introduction to Fractions 24 Introduction to Fractions 24 Equivalent Fractions 25 Simplifying Fractions 26 Half-Way Values 27 Factors, Multiple and Primes 28 Introduction to Powers/Indices 29 Multiply and Dvide by Powers of 10. 30 Rounding to the Nearest 10. 100 etc. 31 Rounding to Decimal Places. 33 Simplifying - Addition and Subtraction 33 Simplifying - Multiplication. 34 Simplifying - Multiplication. 35</td><td>de 2 Properties of Solids</td><td>Gra Multiplying Decimals</td><td>wde 3 Sketching Functions</td></t<>	Grade 1 acs Value	Gra Adding Integers and Decimals 17 Subtracting Integers and Decimals 18 Multiphying Integers 20 Dividing Integers 20 Inverse Operations 21 Money Questions 21 Money Questions 22 Introduction to Fractions 24 Introduction to Fractions 24 Equivalent Fractions 25 Simplifying Fractions 26 Half-Way Values 27 Factors, Multiple and Primes 28 Introduction to Powers/Indices 29 Multiply and Dvide by Powers of 10. 30 Rounding to the Nearest 10. 100 etc. 31 Rounding to Decimal Places. 33 Simplifying - Addition and Subtraction 33 Simplifying - Multiplication. 34 Simplifying - Multiplication. 35	de 2 Properties of Solids	Gra Multiplying Decimals	wde 3 Sketching Functions	
Area of a circle = πr^2	$\begin{array}{c} \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	Function Machines	Data - Discrete and Continuous 63 Vertical Line Charts	Percentage of an Amount (Cafc.)	Volume of a Prism 119 Angles and Parallel Lines 120 Angles in a Triangle 121 Properties of Special Triangles 122 Angle Sum of Polygons 123 Bearings 124 Experimental Probabilities 125 Possibility Spaces 126	
(+) (+) (+) (+)	× (-) becomes - × (+) becomes - × eg. (-5) × 3 = -15 lessons just a click away	2, 3, 5, 7, 11, 13, 17, 19, 23, 29, Each prime number has exactly two factors.		Substitution	Venn Diagrams 127 Representing Data 128 Scatter Diagrams 129 Averages From a Table 130 sion lessons just a click away	
Introduction to Bounds 132 Erri Midpoint of a Line on a Graph 133 Mail Expanding and Simplifying Brackets 134 Fac Solving Equations 135 The Rearranging Simple Formulae 136 Fin Forming Formulae and Equations 137 Ro Inequalities on a Number Line 138 Cut Solving Linear Inequalities 139 Sin	Grade 5 gative Indices	Grade 6 Recurring Decimals to Fractions	Grades 8 and 9 Upper and Lower Bounds	TOPIC ON THE Grades that will be examined: Higher 1 2 3 4 5 6 7 8 9 Foundation 1 2 3 4 5 6 7 8 9		
Fibonacci Sequences 141 Corr Compound Units 142 Loc Distance-Time Graphs 143 Corr Similar Shapes 144 Sac Bisecting an Angle 145 Trig Constructing Perpendiculars 146 Sp Drawing a Triangle Using Compasses 147 Pyr Enlargements 148 Cor Tangents, Arcs, Sectors and Segments 149 Fru Pythagoras Theorem 150 Exa Simple Tree Diagrams 151	mpound Interest and Depreciation. 165 i. 165 i.tors of a Circle 167 i.tors of a Circle 167 i.tors of a Circle 168 ineres 169 amidis 170 stams. 171 stams. 172 act Trigonometric Values 173 aduction to Vectors 174	Cumulative Frequency	Velocity-Time Graphs 216 Pythagoras in 3D. 217 Trigonometry in 3D. 218 Vectors 219 Fractional Indices Surds \sqrt{a} \sqrt{a} \sqrt{a} \sqrt{a} \sqrt{a} \sqrt{a} Quadratic Formula \sqrt{a}	is split into 5 area Number - 65 vide Algebra - 64 vide Ratio and Propor Geometry and Mo	as and 240 videos. os os	
Sampling Populations	rder Tree Diagrams 175 ittlied Sampling 176 Trigonometry So H Cos H Tan A	Transformation of Functions 196 Equation of a Circle 197 Regions 198 Direct and Inverse Proportion 198 Similarity – Area and Volume 200 The Sine Rule 201 The Cosine Rule 202 Area of a Triangle Using Sine 203 And and Or Probability Questions 204 Histograme 205	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $\int b - \sqrt{b}$ $\frac{a}{\sqrt{b}}$ $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$ $\frac{c}{\text{frequency}}$ $\frac{c}{\text{cosine Rule}}$ $a^2 = b^2 + c^2 - 2bc \cos A$ $\int b - \sqrt{b}$ $\frac{d}{\sqrt{b}}$	The timings o 0 to 5 mins	4 videos	

Mr Barton GCSE Mathematics Takeaway

- A collection of GCSE questions and written answers by topic and by grade
- <u>Click here for Mr Barton Maths GCSE Takeaway</u> <u>Papers and Answers</u>

Grade C and above Topics				
51. Percentages	<u>Video</u>	Answers	DQ Quiz	Mathster Quiz
52. Product of Prime Factors, HCF and LCM	<u>Video</u>	<u>Answers</u>	<u>DQ Quiz</u>	<u>Mathster Quiz</u>
53. Using Place Value	<u>Video</u>	<u>Answers</u>	<u>DQ Quiz</u>	<u>Mathster Quiz</u>
54. Negative Numbers	<u>Video</u>	<u>Answers</u>	<u>DQ Quiz</u>	<u>Mathster Quiz</u>
55. Estimation	<u>Video</u>	<u>Answers</u>	<u>DQ Quiz</u>	Mathster Quiz
56. Utility Bills	Video	Answers	To Do	Mathster Quiz
57. Collecting Like Terms	<u>Video</u>	<u>Answers</u>	<u>DQ Quiz</u>	Mathster Quiz
58. Expanding and Factorising	<u>Video</u>	<u>Answers</u>	<u>DQ Quiz</u>	Mathster Quiz
59. Solving Equations	Video	<u>Answers</u>	<u>DQ Quiz</u>	Mathster Quiz
60. Changing the Subject of a Formula	<u>Video</u>	Answers	<u>DQ Quiz</u>	Mathster Quiz
<u>61. Inequalities</u>	Video	<u>Answers</u>	<u>DQ Quiz</u>	Mathster Quiz
62. Trial and Improvement	Video	<u>Answers</u>	DQ Quiz	Mathster Quiz
63. Index Notation	<u>Video</u>	<u>Answers</u>	DQ Quiz	Mathster Quiz
64. Forming and Solving Equations	<u>Video</u>	<u>Answers</u>	DQ Quiz	Mathster Quiz

www.mymaths.co.uk

volume

- <u>School Website</u>
- School login
 denemagna
- School password

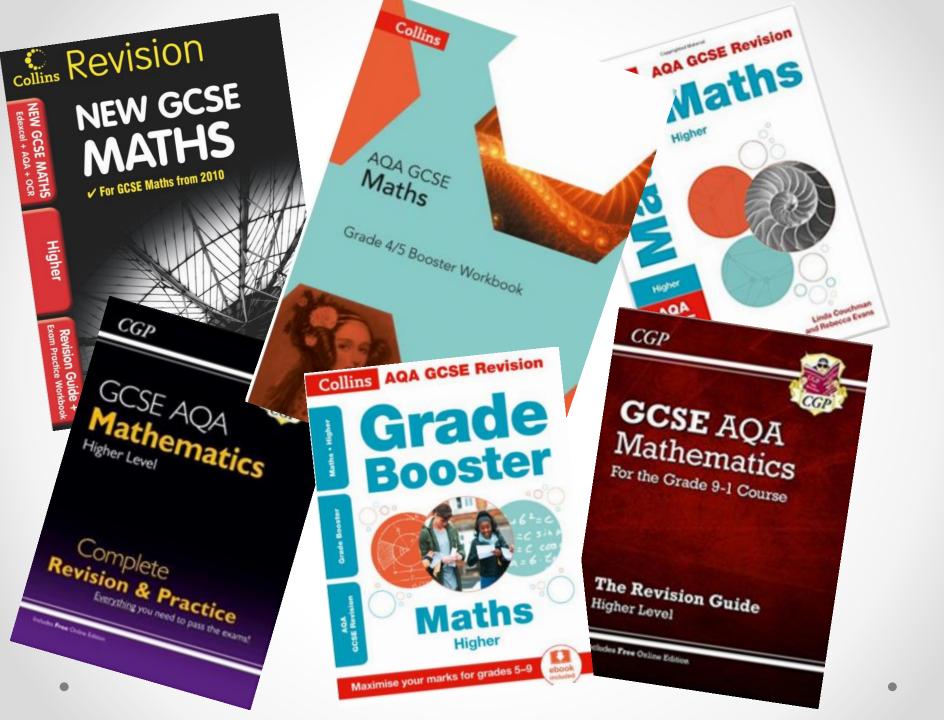


- <u>Student portal</u>
- Student login
- Student Password

3 numbers 3 letters

Maths ILT Support Time

- Every Monday and Wednesday tutor time
- With a member of staff
- In M7 maths classroom
- Bring the ILT you need help with
- Use Chromebooks for digital ILTs



Why study A level Mathematics at Dene Magna?

- Career Opportunities
- Employability Skills
- Preparation for Higher Education
- Supporting Other Subjects
- An Interesting Course

Revision Sessions After School

- Every Wednesday
- With your classroom teacher
- In the usual maths teaching room
- 3.30 pm until 4.30 pm
- Bring writing materials, a drink and a snack