



MATHS YEAR PLANNER (LTP) – YEAR 10 H



Points to remember when revising:

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| Assessment: Assessment: Number | 15% |
| Ratio | 20% |
| Algebra | 30% |
| Geometry | 20% |
| Probability & Statistics | 15% |

Please refer to the Specification and to the Teaching & Learning Guidance both have been saved in the LTP folder with this scheme.

| Term | Learning content/skills | Assessment Schedule* | Homework and Problem Solving | Home Learning Support (How students can extend learning in addition to homework) |
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| <p>Autumn 1 Mon 9th Sept 7 Weeks</p> <p>10T 24 hours</p> <p>10L 24 hours</p> <p>Inset 25th Oct</p> | <p>Chapters 1, 3, 14 and 22 covered at end of Year 9</p> <p>Chapter 15 – Straight line Graphs 6 hours</p> <p>Chapter 2 – Approximations 4 hours</p> <p>Chapter 7 – Powers & Roots 5 hours</p> | <p>Test 1 Oct/Nov 1 hour test</p> <p>2 hour review</p> | <p><u>Chapter 22 Homework</u> <u>AO2 Literacy Homework</u> <u>Angles</u> <u>Answers</u> Homework Chapter 15 <u>coordinates</u> <u>Straight line graphs</u></p> <p>Problem solving Chapter 15 <u>Problems of the day Page 9 or 10, page 26</u> <u>Answers</u></p> <p>Homework- Chapter 2 <u>Rounding</u> <u>Rounding to decimal places</u> <u>Estimation</u> <u>Upper and lower bounds</u></p> <p>Homework- Chapter 7 <u>Indices</u> <u>Negative and fractional indices</u> <u>Surds</u> <u>Standard form 1</u> <u>Standard form 2</u></p> | <p>www.mymaths.co.uk</p> <p>www.vle.mathswatch.co.uk</p> <p>PiXL Maths App</p> <p>www.corbettmaths.com</p> |

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| | <p>Chapter 4 – Ratios and Proportion</p> <p>5 hours</p> | <p><u>Homework Chapter 4</u> <u>AO2 literacy homework</u> <u>Simplifying ratios</u> <u>Sharing ratios</u> <u>Equivalent ratios</u> <u>Ratios as Fractions</u></p> <p><u>Problem Solving Chapter 4</u> <u>Ratio, Difference and multiplication</u> <u>Ratio and LCM</u> <u>Problems of the day Page 9 or 10, page 22 ,27, 28 35 , 51, 57</u> <u>Answers</u> <u>Problems of the day ratio and percentage slide 13and 14</u></p> | |
| <p>Autumn 2 Mon 4th Nov 7 Weeks</p> <p>10T 24 hours 10L 24 hours</p> | <p>Chapter 5 – Percentages</p> <p>6 hours</p> | <p><u>Homework Chapter 5</u> <u>Percentages of an amount</u> <u>Percentage increase</u> <u>Percentage decrease</u> <u>percentage change</u> <u>Reverse percentages</u> <u>Reverse percentage change</u> <u>Compound percentages</u> <u>Growth and decay</u></p> <p><u>Problem Solving Chapter 5</u> <u>Percentage decrease, ratio, two-way tables</u> <u>Reverse percentage ratio and fractions</u> <u>Problems of the day Page 47 question 1</u> <u>Answers</u></p> | <p>www.mymaths.co.uk</p> <p>www.vle.mathswatch.co.uk</p> <p>PiXL Maths App</p> <p>www.corbettmaths.com</p> |

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| | <p>Chapter 6 – Expressions</p> <p style="text-align: right;">6 hours</p> | | <p><u>Homework Chapter 6</u> Collecting like terms Multiplying algebra Expanding Brackets Double brackets Factorising Factorising quadratics Simplifying algebraic fractions 1 Simplifying algebraic fractions 2 Multiplying algebraic fractions Dividing algebraic fractions Adding and subtracting algebraic fractions Expand double brackets with coefficients Expanding 2-3 brackets Factorising quadratics with coe Complete the square</p> | |
| | <p>Chapter 24 – Units & Measuring</p> <p style="text-align: right;">2 hours</p> | | | |
| | <p>Chapter 29 – Perimeter & Area</p> <p style="text-align: right;">4 hours</p> | | <p><u>Homework Chapter 29</u> Area of a parallelogram Area of Trapezia Circumference Area of a circle Arcs and sectors</p> <p><u>Problem Solving Chapter 29</u> Area of circles Extra Questions Compound area Extra Questions</p> | |

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| | <p>Chapter 27 – Pythagoras only pages 249 to 253</p> <p>5 hours</p> | | <p>Functional area problem Extra Questons Circumference and conversion Pentagon problem circle 3 Pentagon problem circle 4 Problems of the day ratio and percentage slide 1, 15 and 17,18 Problems of the day Page 1 ,2,3 11, 12,15 ,16, 40, 45,46,47,54 Answers</p> <p>Homework Chapter 27 Pythagoras Problem Solving Chapter 27 Pythagoras and Extra Problems of the day Page 10,11, 17,23,24 Answers Problems of the day ratio and percentage slide 1 and 2</p> | |
| <p>Spring 1 Mon 6th Jan 6 Weeks</p> <p>10T/L 21 hours</p> | <p>Chapter 9 – Equations</p> <p>5 hours</p> | | <p>Chapter 9 Homework Solving Linear equations 1 Solving Linear equations 2 Forming and solving equations</p> <p>Chapter 9 Problem Solving Forming and solving equations Extra Solving quadratics and area Problems of the day Page 6,7,8,9,12, 30,31,50,53 Answers</p> | <p>www.mymaths.co.uk</p> <p>www.vle.mathswatch.co.uk</p> <p>PiXL Maths App</p> <p>www.corbettmaths.com</p> |

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| | <p>Chapter 34 – Averages & Range 4 hours</p> <p>Chapter 8 – Formulas 4 hours</p> <p>Chapter 10 – Direct & inverse Proportion 4 hours</p> <p>Chapter 11 – Quadratic Equations 7 hours</p> | <p><u>Chapter 34 Homework</u> Mean median mode range Averages Presenting data Bar Charts Scatter Graphs</p> <p><u>Chapter 34 Problem Solving</u> Problems of the day ratio and percentage slide 9 and 10 Problems of the day Page17,18 19 ,20 30,32 Answers</p> <p><u>Chapter 8 Homework</u> Substitution Writing expressions Subject of a formula Substitution Negatives</p> <p><u>Chapter 8 Problem Solving</u> Problems of the day Page 29 question 1 Answers</p> <p><u>Homework Chapter 10</u> Direct proportion Inverse proportion</p> <p><u>Homework Chapter 11</u> Solving quadratics by factorising Solving algebraic fractions</p> <p><u>Problem Solving Chapter 11</u> Solving quadratics and area Problems of the day Page 6,7,,9,12,26,28,</p> | |
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| Spring 2 Mon 24th Feb 6 Weeks 10T 20 hours 10L 20 hours Inset 25th Feb | Chapter 35 – Displaying Data (Ignore 35.2) 9 hours Chapter 21 – Sets (read teaching guidance) 5 hours Chapter 27 – SOHCAHTOA pages 253 - 256 4 hours | Test 2 Jan 1 hour test 1 hour review | Chapter 35 Homework Scatter Graphs Chapter 35 Problem Solving Problems of the day Page 13,14,34,,40, 44,48 Answers Chapter 21 Homework Sets Venn diagrams and equations Chapter 27 Homework Trigonometry Chapter 27 Problems of the day Page 18,42,52 Answers | www.mymaths.co.uk www.vle.mathswatch.co.uk PiXL Maths App www.corbettmaths.com |
| Summer 1 Mon 20th Apr 5 Weeks 10T/L 18 hours | Chapter 36 – Probability 8 hours | | Chapter 36 Homework Basic Probability Understanding risk Probability trees lower Probability trees 2 Chapter 36 Problem Solving Problems of the day ratio and percentage slide 7,8 Problems of the day Page 15,16,23,54 Answers | www.mymaths.co.uk www.vle.mathswatch.co.uk PiXL Maths App www.corbettmaths.com |

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| | <p>Chapter 23 – Circle Geometry</p> <p style="text-align: right;">7 hours</p> | | <p>Solving equations and probability</p> <p>Chapter 23 Homework Circle theorems Chapter 23 Problems Problems of the day Page 34 Answers</p> | |
| <p>Summer 2 Mon 1st June</p> <p>8 Weeks 10T 28 hours 10L 28 hours</p> | <p>Chapter 12 – Simultaneous Equations</p> <p style="text-align: right;">5 hours</p> <p>Chapter 13 – Inequalities</p> <p style="text-align: right;">5 hours</p> | <p>EoY Test June 1 x 1.5 hour paper 1 x 1 hour crossover questions 2 hours review (this may be only one paper)</p> | <p>Chapter 12 Homework Solving Linear equations Simultaneous Quadratic Graphical Simultaneous</p> <p>Chapter 13 homework Solving linear inequalities Numberline inequalities Graphical inequalities</p> | <p>www.mymaths.co.uk www.vle.mathswatch.co.uk</p> <p>PiXL Maths App www.corbettmaths.com</p> |