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| **Subject: Mathematics** | **Year Group: 7** |
| **Autumn 1 – Curriculum Plan** | **Homework Plan** |
| **1. Introduction to Numbers**   * Work with Primes including Highest Common Factor and Lowest Common Multiple * Solve problems involving BIDMAS, * Work with the Laws of indices   **2. Algebra**   * Collecting like terms, * Expanding and factorising, * Substitution Ito algebraic expressions   **3. Averages and Spread**   * Averages in raw data, * Averages in frequency tables, * Estimated mean from grouped frequency tables | *Embed*  Learn to apply skills gained in unit 1 to 3 in solving problem tasks aiming for grade 5 |
| *Apply*  Write up projects, engage in chilli take away tasks, collect data to make valid conclusions |
| *Challenge/Interleaving:*  Exam questions discussed to test skills acquired in lessons(1 problem solving project per lessons) |
| *Improve/Go Green*  Based on the feedback you have received from your Unit 1-3 assessment, perform the following tasks:   * Do your analysis on weaknesses * Redo questions that were not completed to gain full marks * Write revision notes with a green pen |
| **Autumn 1 Assessment:**  A 3 Unit assessment on INTRODUCTION TO NUMBERS,ALGEBRA,AVERAGES AND SPREAD | |

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| **Subject: Mathematics** | **Year Group: 8** |
| **Autumn 1 – Curriculum Plan** | **Homework Plan** |
| 1. **Algebra**  * Collecting like terms, * expanding and factorising, * Factorising quadratics, * Substitution in algebraic expressions  1. **Averages and Spread**  * Averages in raw data, * Averages in frequency tables, * Estimated mean from grouped frequency tables  1. **Fractions, Ratio and Proportion**  * Calculating with fractions and mixed numbers, * Ratio: sharing an amount in a ratio, * direct and inverse proportion | *Embed*  Learn to apply skills gained in unit 1 to 3 in solving problem tasks aiming for grade 6 |
| *Apply*  Write up projects, engage in chilli take away tasks, collect data to make valid conclusions |
| *Challenge/Interleaving*  Exam questions discussed to test skills acquired in lessons(1 problem solving project per lessons)  Solve money problems |
| *Improve/Go Green*  Based on the feedback you have received from your Unit 1-3 assessment, perform the following tasks:   * Do your analysis on weaknesses * Redo questions that were not completed to gain full marks * Write revision notes with a green pen |
| **Autumn 1 Assessment:**  A 3 Unit assessment onALGEBRA,AVERAGES AND SPREAD,FRACTIONS,RATIO AND PROPORTION | |

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| **Subject: Mathematics** | **Year Group: 9** |
| **Autumn 1 – Curriculum Plan** | **Homework Plan** |
| 1. **Fractions**   Add,Subtract,Multiply and divide fractions   1. **Percentages:**   Percentage of Amounts  Percentage increase and decrease  Compound Interest  Percentage problems   1. **Statistical measures:**   Scatter graphs  Estimated mean | *Embed*  Learn to apply skills gained in unit 1 to 3 in solving problem tasks aiming for grade 6+ |
| *Apply*  Write up projects, engage interest rates, how to save money, collect data to make valid conclusions |
| *Challenge/Interleaving*  Exam questions discussed to test skills acquired in lessons(1 problem solving project per lessons)  Solve money problems |
| *Improve/Go Green*  Based on the feedback you have received from your Unit 1-3 assessment, perform the following tasks:   * Do you analysis on weaknesses * Redo questions that were not completed to gain full marks * Write revision notes with a green pen |
| **Autumn 1 Assessment:**  A 3 Unit assessment on Fractions, Percentages and statistical measures | |

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| **Subject: Mathematics** | **Year Group: 10** |
| **Autumn 1 – Curriculum Plan** | **Homework Plan** |
| **Higher:**  **Linear Inequalities:**   * Solve a simple linear inequality and represent it on a number line * Show a graphical inequality. * Find regions that satisfy more than one graphical inequality.   **Advanced Algebra and Quadratics:**   * Quadratics inc formula * Functions   **Foundation:**  **Simultaneous Equations (Linear):**   * Solve by Elimination method * Solve by Substitution method   **Linear Inequalities:**   * solve a simple linear inequality * represent it on a number line | *Embed*  Learn to apply skills gained in unit 1 and 2 in solving problem tasks aiming for grade 5+Higher/3+Foundation |
| *Apply*  Confidently solve exam questions by skills acquired in lessons. |
| *Challenge/Interleaving*  Exam questions discussed to test skills acquired in lessons(1 problem solving project per lesson) |
| *Improve/Go Green*  Based on the feedback you have received from your Unit 1 and 2 assessment, perform the following tasks:   * Do your analysis on weaknesses * Redo questions that were not completed to gain full marks   Write revision notes with a green pen |
| **Autumn 1 Assessment:**  End of Unit assessment(Higher and Foundation Tier)  Higher: **Linear Inequalities ,Advanced Algebra and Quadratics**  Foundation: **Simultaneous Equations (Linear) and Linear Inequalities** | |

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| **Subject:** | **Year Group: 11** |
| **Autumn 1 – Curriculum Plan** | **Homework Plan** |
| **Higher:**   * Error bounds, recurring decimals, product rule * Sine Rule, Cosine Rule and the area of any triangle * Solving quadratic equations   **Foundation:**   * Integers, powers and roots * Factors, Multiples and Primes * Algebraic Manipulation include simple change of subject * Straight line graphs * Lines, angles and shapes * Averages | *Embed*  Learn to apply skills gained in unit 1 and 2 in solving problem tasks aiming for grade 5+Higher/3+Foundation |
| *Apply*  Confidently solve exam questions by skills acquired in lessons. |
| *Challenge/Interleaving*  Exam questions discussed to test skills acquired in lessons(1 problem solving project per lessons) |
| *Improve/Go Green*  Based on the feedback you have received from your Unit 1 and 2 assessment, perform the following tasks:   * Do you analysis on weaknesses * Redo questions that were not completed to gain full marks * Write revision notes with a green pen |
| **Autumn 1 Assessment:**  Full GCSE Paper 1 (Non Calculator) and Paper 2 (Calculator) with post-Results analysis | |