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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
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| **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
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| **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 fractions1. **Percentages:**

Percentage of AmountsPercentage increase and decreaseCompound InterestPercentage problems1. **Statistical measures:**

Scatter graphsEstimated 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
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| **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
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| **Autumn 1 Assessment:**Full GCSE Paper 1 (Non Calculator) and Paper 2 (Calculator) with post-Results analysis |