Subject: Mathematics	**Year Group: 7**
Spring 1 – Curriculum Plan	**Homework Plan**
Higher: **Probability:** Theoretical probability, sample space diagrams, tree diagrams **Perimeter, Area and Volume :** Area of 2D shapes, surface area of 3D shapes, Volume of prisms, circumference and area of circles **Formulae and Indices :** Pythagoras' theorem (H), laws of indices Foundation: **Probability:** Probability Scale Probability of an equally likely outcome **Perimeter, Area and Volume :** Area of 2D shapes, surface area of 3D shapes, Volume of prisms **Formulae and Indices :** Powers and roots	*Embed* PiXL/ Maths homework on a weekly basis on units being covered in class *Apply* Confidently solve exam questions by skills acquired in lessons *Challenge/Interleaving* Exam Questions practice on topics covered in Autumn 1 to Spring 1 Improve/Go Green Based on the feedback you have received from your Unit 1-8 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
Spring 2 Assessment: Unit 1-8	

<table>
<tr><td>Subject: Mathematics</td><td>Year Group: 8</td></tr>
<tr><td>Spring 1 – Curriculum Plan</td><td>Homework Plan</td></tr>
<tr><td rowspan="3">Higher:
Probability :
Theoretical probability, sample space diagrams, tree diagrams

Perimeter, Area and Volume:
Area of 2D shapes, Volume of prisms, circumference and area of circles

Foundation:
Probability :
Probability Scale, Probability of equally likely outcome, combined events

Perimeter, Area and Volume:
Area of 2D shapes, Volume of prisms</td><td><u>Embed</u>
PiXL/ Maths homework on a weekly basis on units being covered in class</td></tr>
<tr><td><u>Apply</u>
Confidently solve exam questions by skills acquired in lessons</td></tr>
<tr><td><u>Challenge/Interleaving</u>
Exam Questions practice on topics covered in Autumn 1 and 2</td></tr>
<tr><td colspan="2">Improve/Go Green
Based on the feedback you have received from your Unit 1- 8 assessment, perform the following tasks:

• Do analysis on weaknesses
• Redo questions that were not completed to gain full marks
• Write revision notes with a green pen</td></tr>
<tr><td colspan="2">Spring 2 Assessment:
Unit 1-8</td></tr>
</table>

Subject: Mathematics	**Year Group: 9**
Spring 1 – Curriculum Plan	**Homework Plan**
Foundation: **Linear Graphs** • Drawing linear graphs by finding points • Gradient of a line • y = mx + c • Finding the equation of a line from its graph **Probability** • Combined events • Two-way tables • Probability and Venn diagrams • Tree diagrams **Higher:** Linear Graphs and equations: • Drawing linear graphs by finding points • Gradient of a line • y = mx + c • Finding the equation of a line from its graph • The equation of a parallel line	*Embed* PiXL/ Maths homework on a weekly basis on units being covered in class *Apply* Confidently solve exam questions by skills acquired in lessons *Challenge/Interleaving* Exam Questions practice on topics covered from Autumn 1 in Spring 1 Improve/Go Green Based on the feedback you have received from your Unit 1-10 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

Real-life uses of graphs **Probability** • Experimental probability • Mutually exclusive events and exhaustive outcomes • Expectation • Choices and Outcomes	
Spring 1 Assessment: Unit 1-10	

Subject: Mathematics	**Year Group: 10**
Spring 1 – Curriculum Plan	**Homework Plan**
Foundation **Linear Graphs:** Distance-time graphs Velocity-time graphs Plotting quadratic graphs Solving quadratic equations by factorisation The significant points of a quadratic curve Cubic and reciprocal graphs **Advanced Shapes** Sectors Pyramids Cones Spheres **Higher:** **Proportion** Direct proportion Inverse proportion **Advanced Trigonometry**	*Embed* PiXL/ Maths homework on a weekly basis on units being covered in class *Apply* Confidently solve exam questions by skills acquired in lessons *Challenge/Interleaving* Exam Questions practice on topics covered from Autumn 1 to Spring 1 *Improve/Go Green* Extended assignment on Autumn 1 to Spring 1 topics to check pupils' understanding. From the assessment pupils will redo strategic questions and compile key revision notes.

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Spring 1 Assessment: **Higher: Practice Paper to Unit 20** **Foundation: Practice Paper to Unit 19**	

<table>
<tr><td>Subject: Mathematics</td><td>Year Group: 11</td></tr>
<tr><td>Spring 1 – Curriculum Plan</td><td>Homework Plan</td></tr>
<tr><td rowspan="4">(Unit break down and list of objectives)

Higher:
Areas of Weaknesses
• Graphs and functions
• Volume and surface area of spheres
• Solving equations using iteration
• Simultaneous equations
• Transformation inc fractional and negative SF

Foundation:
Foundation Weaknesses
• Forming and solving equations
• Angles in polygons
• Straight line graphs
Probability-
• Scale,two-way tables,
• Relative freq
• Combined events
• Simple tree diagrams</td><td>Embed
Learn to apply skills gained in unit 1 and 2 in solving problem tasks aiming for grade 5+Higher/3+Foundation

Mathswatch/PiXL Maths homeworks on a weekly basis on units being covered in class</td></tr>
<tr><td>Apply
Confidently solve exam questions by skills acquired in lessons.</td></tr>
<tr><td>Challenge/Interleaving
Exam questions discussed to test skills acquired in lessons(1 problem solving project per lessons)</td></tr>
<tr><td>Improve/Go Green

Based on the feedback you have received from your Autumn 1 Exams to date, 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</td></tr>
<tr><td colspan="2">Spring 2 Assessment:
PPE 2 Exams(Mock)with Question Level Analysis</td></tr>
</table>