

## S5/6 Higher Mathematics - Remote Learning Plan

- Hodder Gibson textbook
- Edmodo - S4 National 5 Mathematics Group
- Printed notes and explanations will be posted within the group.
- Additional worksheets and solutions will be made available for most topics

	Topic	Resources
<b>Week 1</b>	<b>The Straight Line</b>	
	Revision <ul style="list-style-type: none"> <li>• <math>y=mx+c</math></li> <li>• <math>y-b=m(x-a)</math></li> <li>• General equation of a straight line</li> <li>• Lines parallel to the axes</li> </ul>	<ul style="list-style-type: none"> <li>• Printed Notes</li> <li>• Worksheets</li> </ul>
	<ul style="list-style-type: none"> <li>• The Distance Formula</li> </ul>	<ul style="list-style-type: none"> <li>• Printed Notes</li> <li>• Textbook p3 Ex 1.1</li> </ul>
<b>Week 2</b>	<ul style="list-style-type: none"> <li>• The Midpoint of a Line</li> </ul>	<ul style="list-style-type: none"> <li>• Printed Notes</li> <li>• Textbook p4 Ex 1.2</li> </ul>
	<ul style="list-style-type: none"> <li>• The Angle between a Line and the x-axis</li> </ul>	<ul style="list-style-type: none"> <li>• Printed Notes</li> <li>• Textbook p5 Ex 1.3 Qs1-8</li> </ul>
	<ul style="list-style-type: none"> <li>• Collinearity</li> </ul>	<ul style="list-style-type: none"> <li>• Printed Notes</li> <li>• Textbook p6 Ex 1.4</li> </ul>
<b>Week 3</b>	<ul style="list-style-type: none"> <li>• Gradients of Perpendicular Lines</li> </ul>	<ul style="list-style-type: none"> <li>• Printed Notes</li> <li>• Textbook p8 Ex 1.5</li> </ul>
	<ul style="list-style-type: none"> <li>• Perpendicular Bisectors</li> </ul>	<ul style="list-style-type: none"> <li>• Printed Notes</li> <li>• Textbook p10 Ex 1.6</li> </ul>
	<ul style="list-style-type: none"> <li>• Altitudes</li> </ul>	<ul style="list-style-type: none"> <li>• Printed Notes</li> <li>• Textbook p11 Ex 1.7</li> </ul>
<b>Week 4</b>	<ul style="list-style-type: none"> <li>• Medians</li> </ul>	<ul style="list-style-type: none"> <li>• Printed Notes</li> <li>• Textbook p12 Ex 1.8</li> </ul>
	<ul style="list-style-type: none"> <li>• Intersection of Lines</li> </ul>	<ul style="list-style-type: none"> <li>• Printed Notes</li> <li>• Textbook p14-15 Ex 1.9</li> </ul>
	<ul style="list-style-type: none"> <li>• Consolidation</li> </ul>	<ul style="list-style-type: none"> <li>• Textbook p17-18 Checkout Ex</li> </ul>

<b>Week 5</b>	<b>Recurrence Relations</b>	
	<ul style="list-style-type: none"> <li>Sequences</li> <li>Recurrence Relations</li> </ul>	<ul style="list-style-type: none"> <li>Printed Notes</li> <li>Textbook p20 Ex 2.1 P21 Ex 2.2</li> </ul>
	<ul style="list-style-type: none"> <li>Using Recurrence Relations to Solve Problems</li> </ul>	<ul style="list-style-type: none"> <li>Printed Notes</li> <li>Textbook p23 Ex 2.3 Qs1-5 p27-29 Ex 2.6</li> </ul>
<b>Week 6</b>	<ul style="list-style-type: none"> <li>The Limit of a Recurrence Relation</li> </ul>	<ul style="list-style-type: none"> <li>Printed Notes</li> <li>Textbook p25 Ex 2.4 Q1 p26 Ex 2.5</li> </ul>
	<ul style="list-style-type: none"> <li>Solving Recurrence Relations to find a and b</li> </ul>	<ul style="list-style-type: none"> <li>Printed Notes</li> <li>Textbook p23 Ex 2.3 Q6-10</li> </ul>
	<ul style="list-style-type: none"> <li>Consolidation</li> </ul>	<ul style="list-style-type: none"> <li>Textbook p28-29 Checkout Ex</li> </ul>
<b>Week 7</b>	<b>Preparation for Higher</b>	
	<ul style="list-style-type: none"> <li>Indices</li> <li>Surds</li> </ul>	<ul style="list-style-type: none"> <li>Printed Notes</li> <li>Worksheets</li> </ul>
<b>Week 8 &amp; Week 9</b>	<ul style="list-style-type: none"> <li>Completing the Square</li> <li>Expanding Brackets</li> <li>Factorising</li> <li>Algebraic Fractions</li> <li>Proving Identities</li> </ul>	<ul style="list-style-type: none"> <li>Printed Notes</li> <li>Worksheets</li> </ul>