



Year 11: Foundation				
Half term 1: Autumn 1	Half term 2: Autumn 2	Half term 3: Spring 1	Half term 4: Spring 2	Half term 5: Summer 1
Transformations Purpose: See Box 1 Overview of the knowledge and skills covered in this unit: <ul style="list-style-type: none"> Similar shapes Congruent triangles Enlargement drawing and describing Prior knowledge: <ul style="list-style-type: none"> Translation using vectors Rotation: draw/ describe rotation using a direction and a centre of rotation Reflection: describe and draw given a line of reflection How will this be assessed? See Box 2	Representing data Purpose: See Box 1 Overview of the knowledge and skills covered in this unit: <ul style="list-style-type: none"> Stem and leaf diagrams Pie charts Scatter graph Prior knowledge: <ul style="list-style-type: none"> Pictograms Bar charts Two way tables Frequency polygons Correlation and how to draw a line of best fit Mode, median, mean and range Using a protractor and measuring angles Plot coordinates How will this be assessed? See Box 2 Constructions and Loci (will run into Spring 1) Purpose: See Box 1 Overview of the knowledge and skills covered in this unit: <ul style="list-style-type: none"> Use a compass Construct triangles Bisect a line Bisect an angle Construct Loci Prior knowledge: <ul style="list-style-type: none"> Use a protractor and ruler How will this be assessed? See Box 2	Inequalities Purpose: See Box 1 Overview of the knowledge and skills covered in this unit: <ul style="list-style-type: none"> Draw and interpret inequalities Inequalities on a number line Solve linear inequalities Solve simultaneous equations Draw inequalities on a graph Prior knowledge: <ul style="list-style-type: none"> Solve linear equations Draw linear graphs How will this be assessed? See Box 2	Revision/ Exam practice Purpose: To use Question Level Analysis from mock papers completed and teach a topic/s that students do not fully understand. The list of topics will run from Year 9 up to Year 11 Inequalities. Overview of the knowledge and skills covered in this unit: Will be based on the Question Level Analysis, please speak to your maths teacher about what topics are being re-taught this half term. How will this be assessed? Exam questions will be used to check understanding/ reteach again where needed.	Revision/ Exam practice Purpose: To use Question Level Analysis from mock papers completed and teach a topic/s that students do not fully understand. The list of topics will run from Year 9 up to Year 11 Inequalities. Overview of the knowledge and skills covered in this unit: Will be based on the Question Level Analysis, please speak to your maths teacher about what topics are being re-taught this half term. How will this be assessed? Exam questions will be used to check understanding/ reteach again where needed.

Box 1:
 Designed to reinforce foundational concepts from Years 7, 8, and 9, each unit actively extends students' mathematical understanding into real-world applications.

Box 2:
 Each unit concludes with a post-assessment. Additionally, a comprehensive mock assessment will be held in Autumn Term 2, covering all knowledge from the start of Year 9 through to the Year 11 Spring Term 2.



Year 11: Higher				
Half term 1: Autumn 1	Half term 2: Autumn 2	Half term 3: Spring 1	Half term 4: Spring 2	Half term 5: Summer 1
<p>Transformations</p> <p>Purpose: See Box 1</p> <p>Overview of the knowledge and skills covered in this unit:</p> <ul style="list-style-type: none"> • Similar shapes • Congruent triangles • Enlargement drawing and describing • Negative enlargement • Fractional enlargement • Combined transformations • Area and volume of similar shapes <p>Prior knowledge:</p> <ul style="list-style-type: none"> • Translation using vectors • Rotation: draw/ describe rotation using a direction and a centre of rotation • Reflection: describe and draw given a line of reflection • Area and volume of shapes <p>How will this be assessed? See Box 2</p> <p>Quadratic graphs</p> <p>Purpose: See Box 1</p> <p>Overview of the knowledge and skills covered in this unit:</p> <ul style="list-style-type: none"> • Draw quadratic graphs • Recognise roots and turning points in graphs • Expand 3 brackets • Quadratic formula • Complete the square <p>Prior knowledge:</p> <ul style="list-style-type: none"> • Factorise and expand double brackets • Drawing linear graphs • Substitution • How to use a calculator <p>How will this be assessed? See Box 2</p>	<p>Constructions and Loci (will run into Spring 1)</p> <p>Purpose: See Box 1</p> <p>Overview of the knowledge and skills covered in this unit:</p> <ul style="list-style-type: none"> • Use a compass • Construct triangles • Bisect a line • Bisect an angle • Construct Loci <p>Prior knowledge:</p> <ul style="list-style-type: none"> • Use a protractor and ruler <p>How will this be assessed? See Box 2</p> <p>Inequalities</p> <p>Purpose: See Box 1</p> <p>Overview of the knowledge and skills covered in this unit:</p> <ul style="list-style-type: none"> • Draw and interpret inequalities • Inequalities on a number line • Solve linear inequalities • Solve simultaneous equations • Draw and shade inequalities on a graph • Solve quadratic inequalities • Solve quadratic simultaneous equations <p>Prior knowledge:</p> <ul style="list-style-type: none"> • Solve linear and quadratic equations • Draw linear and quadratic graphs <p>How will this be assessed? See Box 2</p> <p>Advanced Trigonometry</p> <p>Purpose: See Box 1</p> <p>Overview of the knowledge and skills covered in this unit:</p>	<p>Functions and Advanced Graphs</p> <p>Purpose: See Box 1</p> <p>Overview of the knowledge and skills covered in this unit:</p> <ul style="list-style-type: none"> • Recognise quadratics • Evaluate functions • Graphs of a circle • Trigonometric graphs • Transformation of graphs • Identify and draw exponential graphs • Inverse functions • Composite functions <p>Prior knowledge:</p> <ul style="list-style-type: none"> • Transformations of shapes • Substitution <p>How will this be assessed? See Box 2</p> <p>Circle Theorems</p> <p>Purpose: See Box 1</p> <p>Overview of the knowledge and skills covered in this unit:</p> <ul style="list-style-type: none"> • To name and use all 10 circle theorem rules 1) Two radii form an isosceles triangle, 2) The perpendicular bisector of a chord passes through the radius, so find the centre of a circle by bisecting two chords, 3) A tangent meets a radius at 90°, 4) The angle at the centre is double the angle at the circumference when subtended from the same two points, 5) The angle in a semi circle is always 90°, 6) Angles in the same segment are equal, where angles are at the circumference and subtended from the same points, 7) Opposite angles in a cyclic quadrilateral add up to 180°, 8) Tangents drawn from the same point to opposite sides of a circle are the same length, 9) The angle between a chord and a tangent is the <p>Prior knowledge:</p>	<p>Vectors</p> <p>Purpose: See Box 1</p> <p>Overview of the knowledge and skills covered in this unit:</p> <ul style="list-style-type: none"> • Vector notation, multiply, adding and subtracting • Vector geometry <p>Prior knowledge:</p> <ul style="list-style-type: none"> • Translation and vectors • Substitution • Ratio • Parallel lines <p>How will this be assessed? See Box 2</p> <p>Proof</p> <p>Purpose: See Box 1</p> <p>Overview of the knowledge and skills covered in this unit:</p> <ul style="list-style-type: none"> • Disprove statements by finding counter examples • Prove expressions are odd, even or multiples • Recurring decimal proof • Interpret and answer algebraic expressions and proof <p>Prior knowledge:</p> <ul style="list-style-type: none"> • Index laws • Averages • Inequalities • Properties of shapes • Recurring decimals • Write expressions <p>How will this be assessed? See Box 2</p>	<p>Revision/ Exam practice</p> <p>Purpose: To use Question Level Analysis from mock papers completed and teach a topic/s that students do not fully understand. The list of topics will run from Year 9 up to Year 11 Inequalities.</p> <p>Overview of the knowledge and skills covered in this unit:</p> <p>Will be based on the Question Level Analysis, please speak to your maths teacher about what topics are being re-taught this half term.</p> <p>How will this be assessed? Exam questions will be used to check understanding/ reteach again where needed.</p>



<p>Representing data</p> <p>Purpose: See Box 1</p> <p>Overview of the knowledge and skills covered in this unit:</p> <ul style="list-style-type: none">• Stem and leaf diagrams• Pie charts• Scatter graph• Box plots• Histograms <p>Prior knowledge:</p> <ul style="list-style-type: none">• Pictograms• Bar charts• Two way tables• Frequency polygons• Correlation and how to draw a line of best fit• Mode, median, mean and range• Using a protractor and measuring angles• Plot coordinates	<ul style="list-style-type: none">• Sine rule• Cosine rule• Area of a triangle using $0.5abs\sin C$• Pythagoras in 3D• Trigonometry in 3D <p>Prior knowledge:</p> <ul style="list-style-type: none">• To know what $\sin/\cos/\tan$ are• Pythagoras• Trigonometry• Exact Trigonometry <p>How will this be assessed? See Box 2</p>	<ul style="list-style-type: none">same as the angle formed in the opposite segment, 10) Alternate segment theory)• Understand the proof of circle theorems <p>Prior knowledge:</p> <ul style="list-style-type: none">• Understand parts of a circle• Know shape properties of quadrilaterals <p>How will this be assessed? See Box 2</p>		
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Box 2:

Each unit concludes with a post-assessment. Additionally, a comprehensive mock assessment will be held in Autumn Term 2, covering all knowledge from the start of Year 9 through to the Year 11 Spring Term 2.