



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
<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 shapesCongruent trianglesEnlargement drawing and describing <p>Prior knowledge:</p> <ul style="list-style-type: none">Translation using vectorsRotation: draw/ describe rotation using a direction and a centre of rotationReflection: describe and draw given a line of reflection <p>How will this be assessed? See Box 2</p> <hr/> <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 graphsRecognise roots and turning points in graphs <p>Prior knowledge:</p> <ul style="list-style-type: none">Factorise and expand double bracketsDrawing linear graphsSubstitution <p>How will this be assessed? See Box 2</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 diagramsPie chartsScatter graph <p>Prior knowledge:</p> <ul style="list-style-type: none">PictogramsBar chartsTwo way tablesFrequency polygonsCorrelation and how to draw a line of best fitMode, median, mean and rangeUsing a protractor and measuring anglesPlot coordinates <p>How will this be assessed? See Box 2</p> <hr/> <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 compassConstruct trianglesBisect a lineBisect an angleConstruct 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 inequalitiesInequalities on a number lineSolve linear inequalitiesSolve simultaneous equationsDraw inequalities on a graph <p>Prior knowledge:</p> <ul style="list-style-type: none">Solve linear equationsDraw linear graphs <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: 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>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: 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>Box 1:</p> <p>Designed to reinforce foundational concepts from Years 7, 8, and 9, each unit actively extends students’ mathematical understanding into real-world applications.</p>	<p>Box 2:</p> <p>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.</p>
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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
Transformations Purpose: See Box 1 Overview of the knowledge and skills covered in this unit: <ul style="list-style-type: none">Similar shapesCongruent trianglesEnlargement drawing and describingNegative enlargementFractional enlargementCombined transformationsArea and volume of similar shapes Prior knowledge: <ul style="list-style-type: none">Translation using vectorsRotation: draw/ describe rotation using a direction and a centre of rotationReflection: describe and draw given a line of reflectionArea and volume of shapes 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 compassConstruct trianglesBisect a lineBisect an angleConstruct Loci Prior knowledge: <ul style="list-style-type: none">Use a protractor and ruler How will this be assessed? See Box 2	Functions and Advanced Graphs Purpose: See Box 1 Overview of the knowledge and skills covered in this unit: <ul style="list-style-type: none">Recognise quadraticsEvaluate functionsGraphs of a circleTrigonometric graphsTransformation of graphsIdentify and draw exponential graphsInverse functionsCompositie functions Prior knowledge: <ul style="list-style-type: none">Transformations of shapesSubstitution How will this be assessed? See Box 2	Vectors Purpose: See Box 1 Overview of the knowledge and skills covered in this unit: <ul style="list-style-type: none">Vector notation, multiply, adding and subtractingVector geometry Prior knowledge: <ul style="list-style-type: none">Translation and vectorsSubstitutionRatioParallel lines 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.
Quadratic graphs Purpose: See Box 1 Overview of the knowledge and skills covered in this unit: <ul style="list-style-type: none">Draw quadratic graphsRecognise roots and turning points in graphsExpand 3 bracketsQuadratic formulaComplete the square Prior knowledge: <ul style="list-style-type: none">Factorise and expand double bracketsDrawing linear graphsSubstitutionHow to use a calculator 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 inequalitiesInequalities on a number lineSolve linear inequalitiesSolve simultaneous equationsDraw and shade inequalities on a graphSolve quadratic inequalitiesSolve quadratic simultaneous equations Prior knowledge: <ul style="list-style-type: none">Solve linear and quadratic equationsDraw linear and quadratic graphs How will this be assessed? See Box 2	Circle Theorems Purpose: See Box 1 Overview of the knowledge and skills covered in this unit: <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 90o, 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 90o, 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 180o, 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	Proof Purpose: See Box 1 Overview of the knowledge and skills covered in this unit: <ul style="list-style-type: none">Disprove statements by finding counter examplesProve expressions are odd, even or multiplesRecurring decimal proofInterpret and answer algebraic expressions and proof Prior knowledge: <ul style="list-style-type: none">Index lawsAveragesInequalitiesProperties of shapesRecurring decimalsWrite expressions How will this be assessed? See Box 2	



<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 diagramsPie chartsScatter graphBox plotsHistograms <p>Prior knowledge:</p> <ul style="list-style-type: none">PictogramsBar chartsTwo way tablesFrequency polygonsCorrelation and how to draw a line of best fitMode, median, mean and rangeUsing a protractor and measuring anglesPlot coordinates	<ul style="list-style-type: none">Sine ruleCosine ruleArea of a triangle using $0.5ab\sin c$Pythagoras in 3DTrigonometry in 3D <p>Prior knowledge:</p> <ul style="list-style-type: none">To know what $\sin/\cos/ \tan$ arePythagorasTrigonometryExact Trigonometry <p>How will this be assessed? See Box 2</p>	<p>same as the angle formed in the opposite segment, 10) Alternate segment theory)</p> <ul style="list-style-type: none">Understand the proof of circle theorems <p>Prior knowledge:</p> <ul style="list-style-type: none">Understand parts of a circleKnow shape properties of quadrilaterals <p>How will this be assessed? See Box 2</p>		
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