

**Pearson Edexcel Level 1/Level 2 GCSE (9 – 1) in Mathematics (1MA1)**

**This is a Three-year Scheme of Work starting in Year 9 and split into two tiers.**

<b>Unit</b>		<b>Foundation level – Year 9</b>	<b>Estimated hours</b>
<u>1</u>	<u>a</u>	Integers and place value	6
	<u>b</u>	Decimals	5
	<u>c</u>	Indices, powers and roots	7
	<u>d</u>	Factors, multiples and primes	6
<u>2</u>	<u>a</u>	Algebra: the basics	8
	<u>b</u>	Expanding and factorising single brackets	6
	<u>c</u>	Expressions and substitution into formulae	7
<u>3</u>	<u>a</u>	Tables	7
	<u>b</u>	Charts and graphs	7
	<u>c</u>	Pie charts	4
	<u>d</u>	Scatter graphs	6
<u>4</u>	<u>a</u>	Fractions	7
	<u>b</u>	Fractions, decimals and percentages	4
	<u>c</u>	Percentages	7
<u>5</u>	<u>a</u>	Equations	7
	<u>b</u>	Inequalities	5
	<u>c</u>	Sequences	7
<u>6</u>	<u>a</u>	Properties of shapes, parallel lines and angle facts	10
	<u>b</u>	Interior and exterior angles of polygons	6
		<b>Foundation level – Year 10</b>	
<u>7</u>	<u>a</u>	Statistics and sampling	4
	<u>b</u>	The averages	6
<u>8</u>	<u>a</u>	Perimeter and area	10
	<u>b</u>	3D forms and volume	6
<u>9</u>	<u>a</u>	Real-life graphs	9
	<u>b</u>	Straight-line graphs	6
<u>10</u>	<u>a</u>	Transformations I: translations, rotations and reflections	6
	<u>b</u>	Transformations II: enlargements and combinations	8
<u>11</u>	<u>a</u>	Ratio	6
	<u>b</u>	Proportion	6
<u>12</u>		Right-angled triangles: Pythagoras and trigonometry	6
<u>13</u>	<u>a</u>	Probability I	5
	<u>b</u>	Probability II	9
<u>14</u>		Multiplicative reasoning	7
<u>15</u>	<u>a</u>	Plans and elevations	6
	<u>b</u>	Constructions, loci and bearings	10
		<b>Foundation level – Year 11</b>	
<u>16</u>	<u>a</u>	Quadratic equations: expanding and factorising	5
	<u>b</u>	Quadratic equations: graphs	4
<u>17</u>		Circles, cylinders, cones and spheres	7
<u>18</u>	<u>a</u>	Fractions and reciprocals	5
	<u>b</u>	Indices and standard form	6
<u>19</u>	<u>a</u>	Similarity and congruence in 2D	7
	<u>b</u>	Vectors	7
<u>20</u>		Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations	5

Unit		Higher level – Year 9	Estimated hours
<u>1</u>	a	Calculations, checking and rounding	7
	b	Indices, roots, reciprocals and hierarchy of operations	8
	c	Factors, multiples and primes	6
	d	Standard form and surds	6
<u>2</u>	a	Algebra: the basics	8
	b	Setting up, rearranging and solving equations	8
	c	Sequences	6
<u>3</u>	a	Averages and range	7
	b	Representing and interpreting data	8
	c	Scatter graphs	5
<u>4</u>	a	Fractions	8
	b	Percentages	8
	c	Ratio and proportion	8
<u>5</u>	a	Polygons, angles and parallel lines	8
	b	Pythagoras' Theorem and trigonometry	8
<u>6</u>	a	Graphs: the basics and real-life graphs	7
	b	Linear graphs and coordinate geometry	10
	c	Quadratic, cubic and other graphs	8
<b>Higher level – Year 10</b>			
<u>7</u>	a	Perimeter, area and circles	8
	b	3D forms and volume, cylinders, cones and spheres	8
	c	Accuracy and bounds	6
<u>8</u>	a	Transformations	8
	b	Constructions, loci and bearings	8
<u>9</u>	a	Solving quadratic and simultaneous equations	8
	b	Inequalities	6
<u>10</u>		Probability	10
<u>11</u>		Multiplicative reasoning	8
<u>12</u>		Similarity and congruence in 2D and 3D	8
<u>13</u>	a	Graphs of trigonometric functions	6
	b	Further trigonometry	10
<u>14</u>	a	Collecting data	6
	b	Cumulative frequency, box plots and histograms	7
<b>Higher level – Year 11</b>			
<u>15</u>		Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics	8
<u>16</u>	a	Circle theorems	7
	b	Circle geometry	6
<u>17</u>		Changing the subject of formulae (more complex), algebraic fractions, solving equations arising from algebraic fractions, rationalising surds, proof	8
<u>18</u>		Vectors and geometric proof	10
<u>19</u>	a	Reciprocal and exponential graphs; Gradient and area under graphs	8
	b	Direct and inverse proportion	8