



THIRD SPACE  
LEARNING

# Mathematics Paper Index Higher Tier

Edexcel

SET 1A

# The resource in a nutshell

This resource summarises the GCSE maths advance information provided by **Edexcel** for the 3 higher papers.

Numbers in **bold** show how the question numbers in the example papers relate to the specific topics detailed in the advance information for the Summer 2022 exam series.

The 3 practice papers in this pack are based on the topics from the advanced information for the Summer 2022 exam series.

*Please note, the papers are an example to help revision, these topics can be tested in other ways and other topics may be included in the actual papers.*

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Numbers in **bold** show how the question numbers in the example papers relate to the topics detailed in the advance information for the Summer 2022 exam series.

	Number	Ratio	Algebra	Geometry	Probability	Statistics
Paper 1	<ul style="list-style-type: none"> <li>Fraction of an amount <b>4</b></li> <li>Fraction arithmetic <b>14</b></li> <li>Recurring decimal to fraction <b>16</b></li> <li>Product of prime factors <b>2</b></li> <li>Negative and fractional indices <b>18</b></li> <li>Simplification of surds <b>19</b></li> <li>Standard Form conversion and calculation <b>3</b></li> </ul>	<ul style="list-style-type: none"> <li>Percentage of an amount <b>4</b></li> <li>Write as a ratio, share in a ratio, use of ratio, ratio to fraction <b>4</b></li> <li>Equations of proportion <b>8</b></li> <li>Density <b>15</b></li> </ul>	<ul style="list-style-type: none"> <li>Simplification <b>14</b></li> <li>Expansion of brackets <b>1, 19</b></li> <li>Algebraic fractions <b>14</b></li> <li>Linear inequality <b>1</b></li> <li>Form an equation <b>9</b></li> <li>Quadratic equation <b>9</b></li> <li>Equation of a tangent to a circle <b>20</b></li> <li>Quadratic graph <b>6</b></li> <li>Speed-time graph <b>12</b></li> <li>Gradients of parallel and perpendicular lines <b>20</b></li> <li>Gradient of a curve <b>12</b></li> </ul>	<ul style="list-style-type: none"> <li>Angles in a polygon <b>7</b></li> <li>Area of a triangle <b>9</b></li> <li>Volume of a cube <b>15</b></li> <li>Surface area of a cuboid <b>15</b></li> <li>Area of a sector <b>22</b></li> <li>Pythagoras's Theorem <b>5</b></li> <li>Exact trig. values <b>10</b></li> <li>Vector geometry <b>21</b></li> </ul>	<ul style="list-style-type: none"> <li>Probability <b>17</b></li> <li>Independent combined events <b>17</b></li> </ul>	<ul style="list-style-type: none"> <li>Cumulative frequency <b>13</b></li> <li>Mean <b>11</b></li> <li>Interquartile range <b>13</b></li> </ul>
Paper 2	<ul style="list-style-type: none"> <li>Error interval <b>10</b></li> <li>Calculator use <b>1</b></li> </ul>	<ul style="list-style-type: none"> <li>Area <b>6</b></li> <li>Depreciation <b>7</b></li> <li>Use of ratio <b>2</b></li> <li>Direct proportion <b>14</b></li> <li>Currency conversion <b>3</b></li> <li>Inverse proportion <b>14</b></li> <li>Pressure <b>21</b></li> </ul>	<ul style="list-style-type: none"> <li>Simplification <b>5</b></li> <li>Expansion of bracket <b>5</b></li> <li>Factorisation <b>5</b></li> <li>Laws of indices <b>8</b></li> <li>Linear equation <b>9</b></li> <li>Equations of parallel lines <b>12</b></li> <li>Form an equation <b>9</b></li> <li>Quadratic inequality <b>16</b></li> <li>Coordinates</li> <li>Transformations of functions <b>20</b></li> <li>Graphs of trigonometric functions <b>20</b></li> <li>Inverse and composite functions <b>18</b></li> </ul>	<ul style="list-style-type: none"> <li>Transformations <b>4</b></li> <li>Circle theorems <b>19</b></li> <li>Area of a rectangle <b>6</b></li> <li>Volume of composite solid <b>21</b></li> <li>Sine and Cosine Rules <b>17</b></li> </ul>	<ul style="list-style-type: none"> <li>Venn diagram <b>13</b></li> <li>Probability from a Venn diagram <b>13</b></li> </ul>	<ul style="list-style-type: none"> <li>Box plot <b>11</b></li> <li>Lower and upper quartiles <b>11</b></li> <li>Compare distributions <b>11</b></li> <li>Capture-recapture method <b>15</b></li> </ul>
Paper 3	<ul style="list-style-type: none"> <li>Negative number <b>5</b></li> <li>Laws of indices <b>16</b></li> <li>Bounds <b>18</b></li> <li>Product rule for counting <b>7</b></li> </ul>	<ul style="list-style-type: none"> <li>Time <b>3</b></li> <li>Percentage decrease <b>4</b></li> <li>Depreciation <b>13</b></li> <li>Reverse percentage <b>4</b></li> <li>Write as a ratio <b>1</b></li> <li>1 : n form <b>1</b></li> <li>Share in a ratio <b>15</b></li> <li>Direct proportion <b>1</b></li> <li>Average speed <b>3</b></li> <li>General iterative processes <b>11</b></li> </ul>	<ul style="list-style-type: none"> <li>Simplification <b>14</b></li> <li>Expansion of bracket <b>5</b></li> <li>Substitute values <b>5</b></li> <li>Difference of two squares <b>14</b></li> <li>Expansion of brackets <b>14</b></li> <li>Change subject of a formula <b>5</b></li> <li>Forming an expression</li> <li>Algebraic fractions</li> <li>Set up and solve equation</li> <li>Simultaneous equations linear/quadratic <b>19</b></li> <li>Gradient of a straight line graph <b>6</b></li> </ul>	<ul style="list-style-type: none"> <li>Circle theorems <b>10</b></li> <li>Area of a trapezium <b>20</b></li> <li>Similar triangles <b>9</b></li> <li>Pythagoras theorem <b>20</b></li> <li>Trigonometry <b>10</b></li> <li>Trigonometry in 3-D <b>20</b></li> <li>Column vectors <b>8</b></li> </ul>	<ul style="list-style-type: none"> <li>Dependent combined events <b>12</b></li> </ul>	<ul style="list-style-type: none"> <li>Frequency polygon <b>2</b></li> <li>Histogram <b>17</b></li> </ul>

# Help ease the pressure with a personalised revision programme for each of your target KS4 students

Our one to one GCSE revision programme is designed to help your target students reach their potential in their GCSE maths exams.

Our specialist maths tutors work one to one with each student, focusing on securing core KS4 content and building familiarity with the kinds of questions they'll be tackling in their GCSE exams.

Get in touch today:

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