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# Practice Paper Index (Topic List) GCSE Maths Papers Set 5

Edexcel

# The resource in a nutshell

This resource lists all of the topics examined in the SET 5 Edexcel GCSE Mathematics Foundation Papers along with the paper and question number where they appear.

The topics in **bold** show which topics appear on both foundation and higher papers.

*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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Stacey Atkins, Maths Director, Outwood Grange Academies Trust

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Topics in **bold** appear on both tiers - some of these may include the overlap questions that appear on both papers.

	Number	Ratio	Algebra	Geometry	Probability	Statistics
Paper 1	<ul style="list-style-type: none"> <li>Basic arithmetic 2</li> <li>Multiples 3</li> <li>Money calculation 6</li> <li>Fraction arithmetic 12</li> <li>Estimation 14</li> <li><b>Indices 17, 31</b></li> <li><b>Product prime factors 21</b></li> <li><b>HCF 21</b></li> <li>Fractions 23</li> <li><b>Standard form 26</b></li> <li><b>Reverse percentages 27</b></li> </ul>	<ul style="list-style-type: none"> <li>Write ratio 9</li> <li>Recipe proportion 16</li> <li>Percentage profit 19</li> <li>Ratios and fractions 23</li> </ul>	<ul style="list-style-type: none"> <li>Linear equations 8</li> <li>Patterns 10</li> <li>Coordinates 11</li> <li>Equation of line 11</li> <li>Substitution 13</li> <li>Expand single brackets 18</li> <li>Factorise 18</li> <li>Change the subject 24</li> </ul>	<ul style="list-style-type: none"> <li>Convert units 4</li> <li>Measure angle 5</li> <li>Perimeter 15</li> <li>Transformations 20</li> <li>Volume 25</li> <li>Compound measures 25</li> <li><b>Angles in polygon 28</b></li> <li>Exact trig values 30</li> </ul>	<ul style="list-style-type: none"> <li><b>Venn diagram 22</b></li> <li><b>Set notation 22</b></li> <li><b>Tree diagram 29</b></li> </ul>	<ul style="list-style-type: none"> <li>Mode 1</li> <li>Tally chart 7</li> <li>Bar chart 7</li> </ul>
Paper 2	<ul style="list-style-type: none"> <li>Order values 1</li> <li>FDP 2</li> <li>Rounding 3</li> <li>Money problem 6</li> <li>Listing outcomes 7</li> <li>Order fractions 11</li> <li>Use of calculator 12</li> <li>Rounding (dp) 12</li> <li>Fractions 21</li> <li><b>Compound interest 23</b></li> <li><b>Reciprocal 26</b></li> <li><b>Error interval 26</b></li> </ul>	<ul style="list-style-type: none"> <li>Conversion graph 10</li> <li>Proportion 14</li> <li>Write ratio 21</li> <li>Fraction and percentage problem 21</li> </ul>	<ul style="list-style-type: none"> <li>Collect like terms 4</li> <li>Inequality on number line 18</li> <li>Solve inequality 18</li> <li>nth term 20</li> <li>Simultaneous equations 25</li> <li><b>Forming equations 28</b></li> </ul>	<ul style="list-style-type: none"> <li>3D shapes 5</li> <li>Angles 8</li> <li>Timetable 9</li> <li>Locus 17</li> <li><b>Trigonometry 22</b></li> <li>Pythagoras theorem 24</li> <li><b>Bearings 27</b></li> <li><b>Similar shapes 28</b></li> </ul>	<ul style="list-style-type: none"> <li>Basic probability 15</li> <li>Probability scale 15</li> </ul>	<ul style="list-style-type: none"> <li>Two way table 13</li> <li>Estimate mean 16</li> <li><b>Scatter diagram 19</b></li> </ul>
Paper 3	<ul style="list-style-type: none"> <li>Place value 1</li> <li>Factors 2</li> <li>FDP 3</li> <li>Money problem 7</li> <li>Compare fractions 10</li> <li>BIDMAS 11</li> <li>Write fraction 13</li> <li>Percentages 17</li> <li><b>Standard form 23</b></li> <li>Inequality notation 26</li> </ul>	<ul style="list-style-type: none"> <li>Write ratio 8</li> <li>Proportion 15</li> </ul>	<ul style="list-style-type: none"> <li>Substitution 11</li> <li>Linear equations 12</li> <li>Straight line graph 18</li> <li><b>Indices 21</b></li> <li>Quadratic graph 27</li> </ul>	<ul style="list-style-type: none"> <li>Time 4</li> <li>Area 5</li> <li>Perimeter 5</li> <li>Scale drawing 6</li> <li>Symmetry 9</li> <li>Volume 14</li> <li>Transformations 16</li> <li>Angles parallel lines 20</li> <li><b>Pythagoras theorem 24</b></li> <li><b>Area semi circle 24</b></li> <li><b>Area triangle 24</b></li> </ul>	<ul style="list-style-type: none"> <li><b>Expected outcomes 22</b></li> </ul>	<ul style="list-style-type: none"> <li>Pictogram 8</li> <li>Sampling 19</li> <li><b>Mean 25</b></li> </ul>

Topics in **bold** appear on both tiers - some of these may include the overlap questions that appear on both papers.


	Number	Ratio	Algebra	Geometry	Probability	Statistics
Paper 1	<ul style="list-style-type: none"> <li>• <b>Prime factors 1</b></li> <li>• <b>HCF 1</b></li> <li>• <b>Standard form 3</b></li> <li>• Fraction arithmetic 4</li> <li>• <b>Reverse percentages 5</b></li> <li>• <b>Indices 8</b></li> <li>• Recurring decimals 13</li> </ul>	<ul style="list-style-type: none"> <li>• Ratio to percentage 11</li> <li>• Proportion 14</li> <li>• Ratio problem 18</li> </ul>	<ul style="list-style-type: none"> <li>• Quadratic equation 9</li> <li>• Graph 10</li> <li>• Estimate gradient 15</li> <li>• Change the subject 17</li> <li>• Trig graph 20</li> <li>• Functions 21</li> <li>• Quadratic inequalities 21</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Angles in polygon 6</b></li> <li>• Volume 10</li> <li>• Surface area 10</li> <li>• Sector 16</li> <li>• Circle theorem 19</li> <li>• Exact trig values 20</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Venn diagram 2</b></li> <li>• <b>Set notation 2</b></li> <li>• <b>Tree diagram 7</b></li> </ul>	<ul style="list-style-type: none"> <li>• Histogram 12</li> </ul>
Paper 2	<ul style="list-style-type: none"> <li>• <b>Reciprocal 2</b></li> <li>• <b>Error interval 2</b></li> <li>• <b>Compound interest 5</b></li> <li>• Calculator use 6</li> <li>• Rounding 6</li> <li>• Surds 20</li> </ul>	<ul style="list-style-type: none"> <li>• Exchange rates 14</li> <li>• Percentage change 15</li> </ul>	<ul style="list-style-type: none"> <li>• Coordinates 7</li> <li>• <b>Forming equations 8</b></li> <li>• Expand polynomial 11</li> <li>• Perpendicular lines 12</li> <li>• Iteration 16</li> <li>• Complete the square 19</li> <li>• Non linear simultaneous equations 21</li> <li>• Length of line 21</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Trigonometry 1</b></li> <li>• <b>Bearings 4</b></li> <li>• <b>Similar triangles 8</b></li> <li>• Enlargement 13</li> <li>• Cosine rule 17</li> <li>• Area of triangle 17</li> <li>• Vectors 18</li> </ul>	<ul style="list-style-type: none"> <li>• Probability 10</li> </ul>	<ul style="list-style-type: none"> <li>• Scatter diagram 3</li> <li>• Cumulative frequency 9</li> </ul>
Paper 3	<ul style="list-style-type: none"> <li>• <b>Percentages 2</b></li> <li>• <b>Standard form 4</b></li> <li>• LCM 7</li> <li>• Product rule for counting 12</li> <li>• Bounds 20</li> </ul>	<ul style="list-style-type: none"> <li>• Inverse proportion 8</li> <li>• Repeat percentage change 17</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Indices 1</b></li> <li>• Inequalities 9</li> <li>• Quadratic sequence 13</li> <li>• Difference of two squares 15</li> <li>• Algebraic fractions 19</li> <li>• Quadratic formula 22</li> <li>• Graph transformations 23</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Pythagoras 5</b></li> <li>• <b>Area semi circle 5</b></li> <li>• <b>Area triangle 5</b></li> <li>• Surface area cylinder/sphere 10</li> <li>• Circle theorems 16</li> <li>• Area and volume of similar shape 18</li> <li>• 3D Pythagoras and trigonometry 21</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Expected outcomes 3</b></li> <li>• Probability 14</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Mean 6</b></li> <li>• Box plot 11</li> </ul>

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