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Mathematics Paper Index Foundation Tier

OCR

SET 1A

The resource in a nutshell

This resource summarises the GCSE maths advance information provided by **AQA** for the 3 foundation 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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Personalised [online one to one GCSE maths tuition](#) delivered by specialist tutors and designed to guide students through GCSE-style questions on the topics they struggle most with. Available with a 70% subsidy through the [National Tutoring Programme](#).

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"> Four rules with integers 2, 4 Money calculations 6, 11 Priority of operations 8 Inverse operations 5 Understand number definitions and terms 2 Prime numbers 2 Fraction, decimals and percentages Fraction of a quantity 6 Percentages of quantities 6 Percentage change 22 Reverse percentages 22 Listing FDP in order 10 Use of calculator 15 Standard form notation 13 Rounding 1 Upper and lower bounds 24 | <ul style="list-style-type: none"> Share into a ratio 11 Use a ratio | <ul style="list-style-type: none"> Simplifying algebraic expressions 9 Factorising expressions 9 Linear equations 9 Solving inequalities 16 Function machines 5 Quadratic graphs 21 | <ul style="list-style-type: none"> Polygons (notation and terms) 3 Properties of parallel lines 20 Properties of solids 7 Column vectors 17 Time Compound units: rates 25 Area of a rectangle 12 Area of a circle 12 Area of composite shapes 12 Volume including cylinder, pyramid and sphere 23, 25 | N/A | <ul style="list-style-type: none"> Averages and range Scatter diagram and correlation 19 Graphical misrepresentation 14 Frequency tree 18 |
| Paper 2 | <ul style="list-style-type: none"> Arithmetic with positive and negative integers 1 Division of a quantity 11 Prime factors 4 Fraction, decimals and percentages 8 Fractions of a quantity 8 Fraction arithmetic 5 Calculations with decimals 6, 11 Percentage conversions 3 Percentage of a quantity 9 Standard form calculations 18 | <ul style="list-style-type: none"> Simplify ratio 17 Interpreting ratio 17 Inverse proportion 19 | <ul style="list-style-type: none"> Multiplying out brackets 10, 20 Formulate algebraic expressions 20 Equations and identities 10 Solve linear equations 10 Solve quadratic equations 20 Rearrange equations 12 Equation of a straight line 16 | <ul style="list-style-type: none"> Construct and interpret angle bisector, line bisector and distance from a point. 7 Transformations 14 Money 9 Bearings 17 Area of a triangle 9 Trigonometry 21 Exact trigonometric ratios 21 | <ul style="list-style-type: none"> Relative frequency 13 Probability of equally likely events 2 | <ul style="list-style-type: none"> Bar charts 13 Pie charts 15 |
| Paper 3 | <ul style="list-style-type: none"> Calculations with integers Calculations with decimals 12 Prime numbers Factors, multiples and LCM 14 Sequence rule to find a term 7 Understand number definitions and terms 14 Fractions, decimals and percentages 3 Fraction of a quantity 11 Fraction arithmetic 8 Percentage of a quantity 11 Percentage change 18 Powers of integers 6 Use of calculator 16 | <ul style="list-style-type: none"> Write in a ratio 15 Simplify a ratio 15 Calculate with proportions 15 Share in a ratio 11 Direct proportion 23 Simple interest 11 Growth and decay problems and graphs 25 | <ul style="list-style-type: none"> Simplify algebraic products and quotients 13 Multiply out brackets and simplify 13 Factorise quadratic expressions 19 Substitute into an expression 19 Solve linear equation 22 Solve simultaneous equations 24 Continue sequence 7 Quadratic graphs 17 Graphs of real-world contexts 10 | <ul style="list-style-type: none"> Symmetry 4 Circle terms 2 Properties of quadrilaterals 4 Mass, Volume, Density 20 Perimeters of triangles and quadrilaterals 12 Volume and surface area: cuboid and prism 20, 26 | <ul style="list-style-type: none"> Understand the probability scale 1 Probability calculation 1 Listing outcomes and related probabilities 9 Tree diagram 21 Calculation with the laws of probability 21 | <ul style="list-style-type: none"> Averages 5 |

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✉ hello@thirdspacelearning.com

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☎ 0203 771 0095