**Teaching Order Framework**

**Model 2 – Starting Further Maths with the Pure Core**

**Introduction**

This GCE Teaching Order Framework has been designed to help teachers develop schemes of work for delivering the reformed Mathematics and Further Mathematics qualifications in parallel.

This document details a possible route for co-teaching

H230 OCR AS Level Mathematics A

H240 OCR A Level Mathematics A

H235 OCR AS Level Further Mathematics A

H245 OCR A Level Further Mathematics A

This document should be used in conjunction with the full specification documents. One key feature
of the OCR A Level Mathematics A and Further Mathematics A specifications is their two-column structure, setting out the required content in a format to clearly show the progression through AS Level and A Level.

The Teaching Order Framework is fully customisable so that it can be edited to suit your own particular cohort, however care should be taken to avoid introducing content without the required prerequisite knowledge. The route provided is a ‘best fit’ generic solution, effective for whichever of the Further Mathematics options are taken (centres that do not offer all four Further Mathematics options will have less prior knowledge constraints that will need to be balanced). This document covers the full specification content and includes links to the OCR Delivery Guides, but is not designed to constitute a full programme of study. There is flexibility to incorporate periodic review and formative assessment at appropriate times throughout the course.

The structure of the Teaching Order Framework has been produced based on the assumption of
A Level Mathematics and A Level Further Mathematics being taught as two fully timetabled qualifications, each covered by two teachers. In A Level Mathematics there is an assumption that Teacher A acts as a specialist in statistics and Teacher B acts as a specialist in mechanics (with both teaching aspects of the pure content). In A Level Further Maths there is an assumption that Teachers C and D each deliver one of the four options (with both teaching aspects of the core pure content).

**Model 2 prioritises the teaching of the Pure Core content in AS Level Further Mathematics and of optional content which is familiar from the legacy specification. In particular it (generally) leaves “new” content until at least the end of the first term.

This has required some restructuring and reordering of the Mathematics content as compared to the Model 1 version of this framework, in particular moving enough of the pure content early in term 1 to facilitate starting Further Mathematics with the Pure Core. A few other small changes have been made to improve the grouping and ordering of the Mathematics content based on feedback from teachers.**

**Download specifications, sample assessment materials, teaching and learning resources at** [**ocr.org.uk/alevelmathematics**](http://www.ocr.org.uk/qualifications/as-a-level-gce-mathematics-a-h230-h240-from-2017/)[**ocr.org.uk/alevelfurthermaths**](http://www.ocr.org.uk/qualifications/as-a-level-gce-further-mathematics-a-h235-h245-from-2017/)

| **wk/ Term** | **Teacher A****Maths** | **Teacher B****Maths** | **Teacher C & D****Further Maths** |
| --- | --- | --- | --- |
| **(Each teacher deliveries core pure + 1 applied component)****[Students study all core pure + both applied components]** |  **(Each teacher delivers core pure + 1 option) [Students study all core pure + 2 options]** |
| Y532 Stats | Y533 Mech | Y534 Discrete | Y535 Add Pure |
| 1/T1 | [Algebra and Functions](http://www.ocr.org.uk/Images/407095-section-1.02-algebra-and-functions-delivery-guide-version-1-.docx)1.02 a, b, c, d, e | [Equations of lines](http://www.ocr.org.uk/Images/413786-section-1.03-coordinate-geometry-delivery-guide.docx) 1.03 a, b, c | [The language of Matrices](http://www.ocr.org.uk/Images/462036-section-4.03-matrices-delivery-guide.docx)4.03 a, b, c | [The language of complex numbers](http://www.ocr.org.uk/Images/462031-section-4.02-complex-numbers-delivery-guide.docx)4.02 a, b, c |
| 2/T1 | [Polynomial Equations](http://www.ocr.org.uk/Images/407095-section-1.02-algebra-and-functions-delivery-guide-version-1-.docx)1.02 f, j | [Equations of circles](http://www.ocr.org.uk/Images/413786-section-1.03-coordinate-geometry-delivery-guide.docx)1.03 d, e, f  | [Determinants and Inverses](http://www.ocr.org.uk/Images/462036-section-4.03-matrices-delivery-guide.docx)4.03 h, j, l, m, n, o, p | [Basic Operations with complex numbers (Radians)](http://www.ocr.org.uk/Images/462031-section-4.02-complex-numbers-delivery-guide.docx)4.02 e, f |
| 3/T1 | [Proof](http://www.ocr.org.uk/Images/407055-section-1.01-proof-delivery-guide.docx)1.01 a, b, c  | [Vectors](http://www.ocr.org.uk/Images/413780-section-1.10-vectors-delivery-guide.docx)1.10 a, c, d  | [Solutions of simultaneous equations](http://www.ocr.org.uk/Images/462036-section-4.03-matrices-delivery-guide.docx)4.03 r | [Solutions of equations](http://www.ocr.org.uk/Images/462031-section-4.02-complex-numbers-delivery-guide.docx)4.02 g, h, i, j |
| 4/T1 | [Graphs and Transformations](http://www.ocr.org.uk/Images/407095-section-1.02-algebra-and-functions-delivery-guide-version-1-.docx)1.02 p, q, r, w | [Vectors](http://www.ocr.org.uk/Images/413780-section-1.10-vectors-delivery-guide.docx)1.10 e, f, g  | [Proof by Induction](http://www.ocr.org.uk/Images/421456-section-4.01-proof-delivery-guide.docx)4.01 a  | [Argand Diagrams and Loci](http://www.ocr.org.uk/Images/462031-section-4.02-complex-numbers-delivery-guide.docx)4.02 k, l, o, p |
| 5/T1 | [Polynomials and Graphs](http://www.ocr.org.uk/Images/407095-section-1.02-algebra-and-functions-delivery-guide-version-1-.docx)1.02 m, n, o  | [Units](http://www.ocr.org.uk/Images/412029-section-3.01-quantities-and-units-delivery-guide.docx) and [Kinematics](http://www.ocr.org.uk/Images/416565-section-3.02-kinematics-delivery-guide.docx)3.01 a, b 3.02 a, b | [Linear Transformations using matrices](http://www.ocr.org.uk/Images/462036-section-4.03-matrices-delivery-guide.docx)4.03 d, e, f  | [Vectors](http://www.ocr.org.uk/Images/462048-section-4.04-further-vectors-delivery-guide.docx)4.04 a, c, e, g |
| 6/T1 | LDS Introduction and single variable data2.02 a, b | [Kinematic Graphs](http://www.ocr.org.uk/Images/416565-section-3.02-kinematics-delivery-guide.docx)3.02 c | [Invariance and scale factors](http://www.ocr.org.uk/Images/462036-section-4.03-matrices-delivery-guide.docx)4.03 g, i, k, q  | [Roots of equations](http://www.ocr.org.uk/Images/421457-section-4.05-further-algebra-delivery-guide.docx)4.05 a, b  |
| 7/T1 | [Measures of Average and Spread](http://www.ocr.org.uk/Images/421345-section-2.02-data-presentation-and-interpretation-delivery-guide.docx) 2.02 f, g  | [Suvat Equations](http://www.ocr.org.uk/Images/416565-section-3.02-kinematics-delivery-guide.docx)3.02 d | [P & C](http://www.ocr.org.uk/Images/428808-section-5.01-probability-delivery-guide.docx)5.01 a | [Energy](http://www.ocr.org.uk/Images/461533-section-6.02-work-energy-and-power-delivery-guide.docx) 6.02 d, e | [Mathematical Preliminaries](http://www.ocr.org.uk/Images/421459-section-7.01-mathematical-preliminaries-delivery-guide.docx)7.01 a, b, c | [Groups](http://www.ocr.org.uk/Images/461024-section-8.03-groups-delivery-guide.docx)8.02 e, 8.03 a, b |
| 8/T1 | [Outliers and cleaning data](http://www.ocr.org.uk/Images/421345-section-2.02-data-presentation-and-interpretation-delivery-guide.docx)2.02h, i, j | [1st Principles of Differentiation](http://www.ocr.org.uk/Images/412031-section-1.07-differentiation-delivery-guide.docx)1.07 g, i  | [Applications of P & C](http://www.ocr.org.uk/Images/428808-section-5.01-probability-delivery-guide.docx)5.01 b | [Energy](http://www.ocr.org.uk/Images/461533-section-6.02-work-energy-and-power-delivery-guide.docx) 6.02 i | [Mathematical Preliminaries](http://www.ocr.org.uk/Images/421459-section-7.01-mathematical-preliminaries-delivery-guide.docx)7.01 d, e, f, g, I, k | [Groups](http://www.ocr.org.uk/Images/461024-section-8.03-groups-delivery-guide.docx)8.03 c, d |
| 9/T1 | [Binomial Expansion](http://www.ocr.org.uk/Images/415095-section-1.04-sequences-and-series-delivery-guide.docx)1.04 a  | [Differentiation and Gradients](http://www.ocr.org.uk/Images/412031-section-1.07-differentiation-delivery-guide.docx)1.07 a, b | [Chi Squared Contingency Tables](http://www.ocr.org.uk/Images/434835-section-5.06-chi-squared-tests-delivery-guide.docx)5.06 a | [Momentum](http://www.ocr.org.uk/Images/429700-section-6.03-impulse-and-momentum-delivery-guide.docx)6.03 a, b | [Graphs](http://www.ocr.org.uk/Images/422813-section-7.02-graphs-and-networks-delivery-guide.docx)7.02 a, b, c, g | [Groups](http://www.ocr.org.uk/Images/461024-section-8.03-groups-delivery-guide.docx)8.03 e, f, |
| 10/T1 | [Probability](http://www.ocr.org.uk/Images/415108-section-2.03-probability-delivery-guide.docx)1.04 b, 2.03 a, b | [Gradient Functions and 2nd derivatives](http://www.ocr.org.uk/Images/412031-section-1.07-differentiation-delivery-guide.docx)1.07 c, d, e | [Fitting distributions](http://www.ocr.org.uk/Images/434835-section-5.06-chi-squared-tests-delivery-guide.docx) 5.06 b, d (ratio and proportion) | [Restitution](http://www.ocr.org.uk/Images/429700-section-6.03-impulse-and-momentum-delivery-guide.docx)6.03 i, j | [Graphs](http://www.ocr.org.uk/Images/422813-section-7.02-graphs-and-networks-delivery-guide.docx)7.02 d, e, p, q, r | [Groups](http://www.ocr.org.uk/Images/461024-section-8.03-groups-delivery-guide.docx)8.03 g, h |
| 11/T1 | [Discrete distributions (incl Binomial)](http://www.ocr.org.uk/Images/415107-section-2.04-statistical-distributions-delivery-guide.docx)2.04 a, b, c | [Equations of tangents and normal](http://www.ocr.org.uk/Images/412031-section-1.07-differentiation-delivery-guide.docx)1.07 m | [Probability Distributions](http://www.ocr.org.uk/Images/459303-section-5.02-discrete-random-variables-delivery-guide.docx)5.02 a, b, c | [Dim Analysis](http://www.ocr.org.uk/Images/429448-section-6.01-dimensional-analysis-delivery-guide.docx)6.01 a, b, d | [Algorithms](http://www.ocr.org.uk/Images/423943-section-7.03-algorithms-delivery-guide.docx)7.03 a, b, c | [Properties of groups](http://www.ocr.org.uk/Images/461024-section-8.03-groups-delivery-guide.docx)8.03 i |
| 12/T1 | [Sampling](http://www.ocr.org.uk/Images/412028-section-2.01-statistical-sampling-delivery-guide.docx)2.01 a, b, c, d | [Stationary Points](http://www.ocr.org.uk/Images/412031-section-1.07-differentiation-delivery-guide.docx)1.07 n, o | [Binomial, Uniform and Geometric distributions](http://www.ocr.org.uk/Images/459303-section-5.02-discrete-random-variables-delivery-guide.docx)5.02 d, e, f, g, h | [Dim Analysis](http://www.ocr.org.uk/Images/429448-section-6.01-dimensional-analysis-delivery-guide.docx)6.01 c, e | [Algorithms](http://www.ocr.org.uk/Images/423943-section-7.03-algorithms-delivery-guide.docx)7.03 j, l | [Properties of sequences](http://www.ocr.org.uk/Images/423927-section-8.01-sequences-and-series-delivery-guide.docx)8.01 a, b, h |
| 1/T2 | [Inequalities](http://www.ocr.org.uk/Images/407095-section-1.02-algebra-and-functions-delivery-guide-version-1-.docx)1.02 g, h, i  | [Forces](http://www.ocr.org.uk/Images/418253-section-3.03-forces-and-newton-s-laws-delivery-guide.docx)3.03 a, f, g | [Fitting distributions](http://www.ocr.org.uk/Images/434835-section-5.06-chi-squared-tests-delivery-guide.docx) [5.06 b, d (Bin, U and Geo)](http://www.ocr.org.uk/Images/434835-section-5.06-chi-squared-tests-delivery-guide.docx) | [Resolving forces (preliminary work)](http://www.ocr.org.uk/Images/418253-section-3.03-forces-and-newton-s-laws-delivery-guide.docx) | [Graphs](http://www.ocr.org.uk/Images/422813-section-7.02-graphs-and-networks-delivery-guide.docx)7.02 j, k | [Properties of sequences](http://www.ocr.org.uk/Images/423927-section-8.01-sequences-and-series-delivery-guide.docx)8.01 c, d |
| 2/T2 | [More LDS and Bivariate data](http://www.ocr.org.uk/Images/421345-section-2.02-data-presentation-and-interpretation-delivery-guide.docx) (1)2.02 c, d, e  | [Newton’s Laws (1)](http://www.ocr.org.uk/Images/418253-section-3.03-forces-and-newton-s-laws-delivery-guide.docx)3.03 b, c, j, r  | [Dependent and Independent Variables](http://www.ocr.org.uk/Images/461021-section-5.09-linear-regression-delivery-guide.docx)5.09 a | [Impulse](http://www.ocr.org.uk/Images/429700-section-6.03-impulse-and-momentum-delivery-guide.docx) 6.03 e, f | [Network Algorithms](http://www.ocr.org.uk/Images/426767-section-7.04-network-algorithms-delivery-guide.docx)7.04 a | [Fibonnaci and Solving relations](http://www.ocr.org.uk/Images/423927-section-8.01-sequences-and-series-delivery-guide.docx)8.01 e, f  |
| 3/T2 | [Bivariate Data (2)](http://www.ocr.org.uk/Images/421345-section-2.02-data-presentation-and-interpretation-delivery-guide.docx)2.02 c, d, e  | [Newton’s Laws (2)](http://www.ocr.org.uk/Images/418253-section-3.03-forces-and-newton-s-laws-delivery-guide.docx)3.03 d | [Linear regression](http://www.ocr.org.uk/Images/461021-section-5.09-linear-regression-delivery-guide.docx)5.09 b, c, d, e | [Restitution](http://www.ocr.org.uk/Images/429700-section-6.03-impulse-and-momentum-delivery-guide.docx)6.03 i, j, k | [Network Algorithms](http://www.ocr.org.uk/Images/426767-section-7.04-network-algorithms-delivery-guide.docx)7.04 b, f | [Vector product and scalar triple product](http://www.ocr.org.uk/Images/462125-section-8.04-further-vectors-delivery-guide.docx)8.04 a, b, c, d |
| 4/T2 | [Exponentials and Logarithms](http://www.ocr.org.uk/Images/416786-section-1.06-exponential-and-logarithms-delivery-guide.docx)1.06 a, b, c  | [Newton’s Laws (3)](http://www.ocr.org.uk/Images/418253-section-3.03-forces-and-newton-s-laws-delivery-guide.docx)3.03 h, i | [PMCC](http://www.ocr.org.uk/Images/461020-section-5.08-correlation-delivery-guide.docx)5.08 a, b, c | [Work, Energy and Power](http://www.ocr.org.uk/Images/461533-section-6.02-work-energy-and-power-delivery-guide.docx)6.02 a, b, (i) | [Critical Path Analysis](http://www.ocr.org.uk/Images/426772-section-7.05-decision-making-project-management-delivery-guide.docx)7.05 a | [Number Theory](http://www.ocr.org.uk/Images/422814-section-8.02-number-theory-delivery-guide.docx)8.02 a, b, c, d |
| 5/T2 | [Exponential Graphs](http://www.ocr.org.uk/Images/416786-section-1.06-exponential-and-logarithms-delivery-guide.docx)1.06 d, e, f  | [Connected particles](http://www.ocr.org.uk/Images/418253-section-3.03-forces-and-newton-s-laws-delivery-guide.docx)3.03 k, n  | [SRC](http://www.ocr.org.uk/Images/461020-section-5.08-correlation-delivery-guide.docx)5.08 e, g | [Work, Energy and Power](http://www.ocr.org.uk/Images/461533-section-6.02-work-energy-and-power-delivery-guide.docx)6.02k, l, (i) | [Critical Path Analysis](http://www.ocr.org.uk/Images/426772-section-7.05-decision-making-project-management-delivery-guide.docx)7.05 b, c | [Number Theory](http://www.ocr.org.uk/Images/422814-section-8.02-number-theory-delivery-guide.docx)8.02 e, f, i, j, k |
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| 6/T2 | [Modelling with exponentials](http://www.ocr.org.uk/Images/416786-section-1.06-exponential-and-logarithms-delivery-guide.docx)1.06 g, h, i  | Connecting Kinematics and Forces | Recap of Proof and Matrices | Recap of Complex numbers and Vectors |
| 7/T2 | [Trigonometry](http://www.ocr.org.uk/Images/416575-section-1.05-trigonometry-delivery-guide-version-1-.docx)1.05 a, b, c  | [Fundamental Theorem of Calculus](http://www.ocr.org.uk/Images/412032-section-1.08-integration-delivery-guide.docx)1.08 a, b | [Poisson](http://www.ocr.org.uk/Images/459303-section-5.02-discrete-random-variables-delivery-guide.docx)5.02 i, j, k, l,  | [Uniform motion in a circle](http://www.ocr.org.uk/Images/429926-section-6.05-motion-in-a-circle-delivery-guide.docx) 6.05 a | [Algorithms](http://www.ocr.org.uk/Images/423943-section-7.03-algorithms-delivery-guide.docx)7.03 d, e, f, g | [Surfaces](http://www.ocr.org.uk/Images/423804-section-8.05-surfaces-and-partial-differentiation-delivery-guide.docx) 8.05 a |
| 8/T2 | [Trigonometry Functions](http://www.ocr.org.uk/Images/416575-section-1.05-trigonometry-delivery-guide-version-1-.docx)1.05 f, j, o  | [Definite Integrals (1)](http://www.ocr.org.uk/Images/412032-section-1.08-integration-delivery-guide.docx)1.08 d, e | [Poisson](http://www.ocr.org.uk/Images/459303-section-5.02-discrete-random-variables-delivery-guide.docx)5.02 m , n + 5.06b, d | [Uniform motion in a circle](http://www.ocr.org.uk/Images/429926-section-6.05-motion-in-a-circle-delivery-guide.docx) 6.05 b | [Graphical Linear Programming](http://www.ocr.org.uk/Images/426773-section-7.06-graphical-linear-programming-delivery-guide.docx)7.06 a, c | [Sections and contours](http://www.ocr.org.uk/Images/423804-section-8.05-surfaces-and-partial-differentiation-delivery-guide.docx) 8.05 c |
| 9/T2 | [Statistical Hypothesis Testing (1)](http://www.ocr.org.uk/Images/417813-section-2.05-statistical-hypothesis-testing-delivery-guide.docx)2.05 a, b, c  | [Definite Integrals (2)](http://www.ocr.org.uk/Images/412032-section-1.08-integration-delivery-guide.docx)1.08 d, e | [Hypothesis tests](http://www.ocr.org.uk/Images/461020-section-5.08-correlation-delivery-guide.docx) 5.08d  | [Uniform motion in a circle](http://www.ocr.org.uk/Images/429926-section-6.05-motion-in-a-circle-delivery-guide.docx) 6.05 c | [Graphical Linear Programming](http://www.ocr.org.uk/Images/426773-section-7.06-graphical-linear-programming-delivery-guide.docx)7.06 d | [Partial Diff](http://www.ocr.org.uk/Images/423804-section-8.05-surfaces-and-partial-differentiation-delivery-guide.docx) 8.05 d |
| 10/T2 | [Statistical Hypothesis Testing (2)](http://www.ocr.org.uk/Images/417813-section-2.05-statistical-hypothesis-testing-delivery-guide.docx)2.05 a, b, c  | [Constant and variable acceleration](http://www.ocr.org.uk/Images/416565-section-3.02-kinematics-delivery-guide.docx)3.02 d, f | [Hypothesis tests](http://www.ocr.org.uk/Images/461020-section-5.08-correlation-delivery-guide.docx) 5.08f | [Motion in a vertical circle](http://www.ocr.org.uk/Images/429926-section-6.05-motion-in-a-circle-delivery-guide.docx)6.05 d | [Game Theory](http://www.ocr.org.uk/Images/422811-section-7.08-game-theory-delivery-guide.docx)7.08 a, b, c, e | [Stationary points](http://www.ocr.org.uk/Images/423804-section-8.05-surfaces-and-partial-differentiation-delivery-guide.docx) 8.05 e |
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| 1/T3 | [Conditional Probability](http://www.ocr.org.uk/Images/415108-section-2.03-probability-delivery-guide.docx)2.03 c, d, e | [Radians and Trigonometry](http://www.ocr.org.uk/Images/416575-section-1.05-trigonometry-delivery-guide-version-1-.docx)1.05 d, e | [Non-parametric Tests](http://www.ocr.org.uk/Images/434834-section-5.07-non-parametric-tests-delivery-guide.docx)5.07 a, b | [Hooke’s law](http://www.ocr.org.uk/Images/461533-section-6.02-work-energy-and-power-delivery-guide.docx)6.02 g, h | [Graphs and Networks](http://www.ocr.org.uk/Images/422813-section-7.02-graphs-and-networks-delivery-guide.docx)7.02 f, h, i,  | [Finite (modular) arithmetic](http://www.ocr.org.uk/Images/422814-section-8.02-number-theory-delivery-guide.docx)8.02 g |
| 2/T3 | [Algebra and Functions](http://www.ocr.org.uk/Images/407095-section-1.02-algebra-and-functions-delivery-guide-version-1-.docx)1.02 u, v, x | [Radians and Trigonometry](http://www.ocr.org.uk/Images/416575-section-1.05-trigonometry-delivery-guide-version-1-.docx)1.05 g, h, i, k, o | [Single Sample hypothesis tests](http://www.ocr.org.uk/Images/434834-section-5.07-non-parametric-tests-delivery-guide.docx)5.07 c | [Linear momentum in 2-D](http://www.ocr.org.uk/Images/429700-section-6.03-impulse-and-momentum-delivery-guide.docx)6.03 c, d | [Graphs and Networks](http://www.ocr.org.uk/Images/422813-section-7.02-graphs-and-networks-delivery-guide.docx)7.02 l, m, n, o | [Finite (modular) arithmetic](http://www.ocr.org.uk/Images/422814-section-8.02-number-theory-delivery-guide.docx)8.02 h |
| 3/T3 | [Series and Sequences](http://www.ocr.org.uk/Images/415095-section-1.04-sequences-and-series-delivery-guide.docx)1.04 c, d, e, f, g | [Numerical Methods](http://www.ocr.org.uk/Images/415109-section-1.09-numerical-methods-delivery-guide.docx)1.09 a, b, c | [Paired-sample and two sample hypothesis test](http://www.ocr.org.uk/Images/434834-section-5.07-non-parametric-tests-delivery-guide.docx)5.07 d | [Oblique impact](http://www.ocr.org.uk/Images/429700-section-6.03-impulse-and-momentum-delivery-guide.docx)6.03 g, h | [Network Algorithms](http://www.ocr.org.uk/Images/426767-section-7.04-network-algorithms-delivery-guide.docx)7.04 c, d, e | [Fermat’s little theorem and binomial theorem](http://www.ocr.org.uk/Images/422814-section-8.02-number-theory-delivery-guide.docx)8.02 l, o |
| 4/T3 | [AP and GP](http://www.ocr.org.uk/Images/415095-section-1.04-sequences-and-series-delivery-guide.docx)1.04 h, i, j, k | [Newton-Raphson](http://www.ocr.org.uk/Images/415109-section-1.09-numerical-methods-delivery-guide.docx)1.09 d, e | [Test for identity](http://www.ocr.org.uk/Images/434834-section-5.07-non-parametric-tests-delivery-guide.docx)5.07 e | [NEL](http://www.ocr.org.uk/Images/429700-section-6.03-impulse-and-momentum-delivery-guide.docx)6.03 l | [Network Algorithms](http://www.ocr.org.uk/Images/426767-section-7.04-network-algorithms-delivery-guide.docx)7.04 c, d, e | [Order](http://www.ocr.org.uk/Images/422814-section-8.02-number-theory-delivery-guide.docx)8.02 m, n |
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