**Teaching Order Framework**

**Model 1 – Parallel over two years**

**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 1 assumes that the optional content in Further Maths will be spread out over the course, rather than taught in a single block.**

**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 | [LDS and Sampling](http://www.ocr.org.uk/Images/421345-section-2.02-data-presentation-and-interpretation-delivery-guide.docx)2.02 a | [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 | [P & C](http://www.ocr.org.uk/Images/428808-section-5.01-probability-delivery-guide.docx)5.01 a | [Dim Analysis](http://www.ocr.org.uk/Images/429448-section-6.01-dimensional-analysis-delivery-guide.docx)6.01 a, b, d | [Graphs](http://www.ocr.org.uk/Images/422813-section-7.02-graphs-and-networks-delivery-guide.docx)7.02 a, b, c, g | [Number Theory](http://www.ocr.org.uk/Images/422814-section-8.02-number-theory-delivery-guide.docx)8.02 a, b, c, d |
| 2/T1 | [Sampling](http://www.ocr.org.uk/Images/412028-section-2.01-statistical-sampling-delivery-guide.docx)2.01 a, b, c, d | [Proof](http://www.ocr.org.uk/Images/407055-section-1.01-proof-delivery-guide.docx)1.01 a, b, c | [Applications of P & C](http://www.ocr.org.uk/Images/428808-section-5.01-probability-delivery-guide.docx)5.01 b | [Dim Analysis](http://www.ocr.org.uk/Images/429448-section-6.01-dimensional-analysis-delivery-guide.docx)6.01 c, e | [Graphs](http://www.ocr.org.uk/Images/422813-section-7.02-graphs-and-networks-delivery-guide.docx)7.02 d, e, p, q, r | [Number Theory](http://www.ocr.org.uk/Images/422814-section-8.02-number-theory-delivery-guide.docx)8.02 e, f, i, j, k |
| 3/T1 | [Coordinate Geometry](http://www.ocr.org.uk/Images/413786-section-1.03-coordinate-geometry-delivery-guide.docx)1.03 a | [Binomial Expansion](http://www.ocr.org.uk/Images/415095-section-1.04-sequences-and-series-delivery-guide.docx)1.04 a | [Proof by Induction](http://www.ocr.org.uk/Images/421456-section-4.01-proof-delivery-guide.docx)4.01 a | [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 |
| 4/T1 | [Equations of lines](http://www.ocr.org.uk/Images/413786-section-1.03-coordinate-geometry-delivery-guide.docx) 1.03 b, c | [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 | [The language of Matrices](http://www.ocr.org.uk/Images/462036-section-4.03-matrices-delivery-guide.docx)4.03 a, b, c | [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 |
| 5/T1 | [Equations of circles](http://www.ocr.org.uk/Images/413786-section-1.03-coordinate-geometry-delivery-guide.docx)1.03 d, e, f | [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 | [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 | [Solutions of equations](http://www.ocr.org.uk/Images/462031-section-4.02-complex-numbers-delivery-guide.docx)4.02 g, h, i, j |
| 6/T1 | [Vectors](http://www.ocr.org.uk/Images/413780-section-1.10-vectors-delivery-guide.docx)1.10 a, c, d | [Kinematic Graphs](http://www.ocr.org.uk/Images/416565-section-3.02-kinematics-delivery-guide.docx)3.02 c | [Solutions of simultaneous equations](http://www.ocr.org.uk/Images/462036-section-4.03-matrices-delivery-guide.docx)4.03 r | [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 |
| 7/T1 | [Vectors](http://www.ocr.org.uk/Images/413780-section-1.10-vectors-delivery-guide.docx)1.10 e, f, g | [Suvat Equations](http://www.ocr.org.uk/Images/416565-section-3.02-kinematics-delivery-guide.docx)3.02 d | [Chi Squared Contingency Tables](http://www.ocr.org.uk/Images/434835-section-5.06-chi-squared-tests-delivery-guide.docx)5.06 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)8.03 a, b |
| 8/T1 | [Binomial Expansion](http://www.ocr.org.uk/Images/415095-section-1.04-sequences-and-series-delivery-guide.docx) and [Probability](http://www.ocr.org.uk/Images/415108-section-2.03-probability-delivery-guide.docx)1.04 b, 2.03 a, b | [Differentiation and Gradients](http://www.ocr.org.uk/Images/412031-section-1.07-differentiation-delivery-guide.docx)1.07 a, b | [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) | [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 Distribution](http://www.ocr.org.uk/Images/415107-section-2.04-statistical-distributions-delivery-guide.docx)2.04 a, b, c | [Gradient Functions and 2nd derivatives](http://www.ocr.org.uk/Images/412031-section-1.07-differentiation-delivery-guide.docx)1.07 c, d, e | [Probability Distributions](http://www.ocr.org.uk/Images/459303-section-5.02-discrete-random-variables-delivery-guide.docx)5.02 a, b, c | [Momentum](http://www.ocr.org.uk/Images/429700-section-6.03-impulse-and-momentum-delivery-guide.docx)6.03 a, b | [Algorithms](http://www.ocr.org.uk/Images/423943-section-7.03-algorithms-delivery-guide.docx)7.03 a, b, c | [Groups](http://www.ocr.org.uk/Images/461024-section-8.03-groups-delivery-guide.docx)8.03 e, f |
| 10/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 | [1st Principles of Differentiation](http://www.ocr.org.uk/Images/412031-section-1.07-differentiation-delivery-guide.docx)1.07 g, i | [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 | [Restitution](http://www.ocr.org.uk/Images/429700-section-6.03-impulse-and-momentum-delivery-guide.docx)6.03 i, j | [Algorithms](http://www.ocr.org.uk/Images/423943-section-7.03-algorithms-delivery-guide.docx)7.03 j, l | [Groups](http://www.ocr.org.uk/Images/461024-section-8.03-groups-delivery-guide.docx)8.03 g, h |
| 11/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 tangents and normal](http://www.ocr.org.uk/Images/412031-section-1.07-differentiation-delivery-guide.docx)1.07 m | [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 |
| 12/T1 | [Inequalities](http://www.ocr.org.uk/Images/407095-section-1.02-algebra-and-functions-delivery-guide-version-1-.docx)1.02 g, h, i | [Stationary Points](http://www.ocr.org.uk/Images/412031-section-1.07-differentiation-delivery-guide.docx)1.07 n, o | [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  |
| 1/T2 | [Data Presentation](http://www.ocr.org.uk/Images/421345-section-2.02-data-presentation-and-interpretation-delivery-guide.docx)2.02 b | [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) | [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 groups](http://www.ocr.org.uk/Images/461024-section-8.03-groups-delivery-guide.docx)8.03 i |
| 2/T2 | [Bivariate Data](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](http://www.ocr.org.uk/Images/418253-section-3.03-forces-and-newton-s-laws-delivery-guide.docx)3.03 b, c, d, h | [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 | [Properties of sequences](http://www.ocr.org.uk/Images/423927-section-8.01-sequences-and-series-delivery-guide.docx)8.01 a, b, h |
| 3/T2 | [Average, Spread and Outliers](http://www.ocr.org.uk/Images/421345-section-2.02-data-presentation-and-interpretation-delivery-guide.docx)2.02 f, g, h, i | [Equilibrium](http://www.ocr.org.uk/Images/418253-section-3.03-forces-and-newton-s-laws-delivery-guide.docx)3.03 i, j, r | [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 | [Properties of sequences](http://www.ocr.org.uk/Images/423927-section-8.01-sequences-and-series-delivery-guide.docx)8.01 c, d |
| 4/T2 | [Working with LDS](http://www.ocr.org.uk/Images/421345-section-2.02-data-presentation-and-interpretation-delivery-guide.docx)2.02 j | [Connected Particles](http://www.ocr.org.uk/Images/418253-section-3.03-forces-and-newton-s-laws-delivery-guide.docx)3.03 k, n | [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 | [Fibonnaci and Solving relations](http://www.ocr.org.uk/Images/423927-section-8.01-sequences-and-series-delivery-guide.docx)8.01 e, f  |
| 5/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 | [Trigonometry](http://www.ocr.org.uk/Images/416575-section-1.05-trigonometry-delivery-guide-version-1-.docx)1.05 a, b, c | [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 | [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 |
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| 6/T2 | [Exponential Graphs](http://www.ocr.org.uk/Images/416786-section-1.06-exponential-and-logarithms-delivery-guide.docx)1.06 d, e, f | [Trigonometry Functions](http://www.ocr.org.uk/Images/416575-section-1.05-trigonometry-delivery-guide-version-1-.docx)1.05 f, j, o | Recap of Proof and Matrices | Recap of Complex numbers and Vectors |
| 7/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 | [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 | [Statistical Hypothesis Testing](http://www.ocr.org.uk/Images/417813-section-2.05-statistical-hypothesis-testing-delivery-guide.docx)2.05 a | [Definite Integrals](http://www.ocr.org.uk/Images/412032-section-1.08-integration-delivery-guide.docx)1.08 d | [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 | [Binomial Hypothesis Testing](http://www.ocr.org.uk/Images/417813-section-2.05-statistical-hypothesis-testing-delivery-guide.docx)2.05 b | [Area between curve and x-axis](http://www.ocr.org.uk/Images/412032-section-1.08-integration-delivery-guide.docx)1.08 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 | [Inference](http://www.ocr.org.uk/Images/417813-section-2.05-statistical-hypothesis-testing-delivery-guide.docx)2.05 c | [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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