***Introducing Pure Mathematics* by Robert Smedley and Garry Wiseman**

AQA Specification A Syllabus Grid

AS Module Me *Methods*
IS = Introducing Statistics
US = Understanding Statistics

Topic	Pages	Notes
12.1 Algebra	1–42, 117–129, 404–409	
12.2 Co-ordinate Geometry	131–147	
12.3 Differentiation	156–185	
12.4 Integration	189–200	
12.5 Data		*IS* pp. 1–79 *US* pp. 1–25, 36–69
12.6 Probability		*IS* pp. 92–142 *US* pp. 114–166
12.7 Probability Distributions		*IS* pp. 143–163 *US* pp. 167–191

AS Module P1 *Pure 1*

Topic	Pages	Notes
13.1 Proof	515–526	
13.2 Functions	79–116	
13.3 Sequences and Series	230–261	
13.4 Trigonometry	45–48, 68–72, 334–354	
13.5 Exponentials and Logarithms	410–417	
13.6 Differentiation	156–188, 417–427	
13.7 Integration	189–195, 418–427	
13.8 Numerical Methods	472–478	

A2 Module P2 *Pure 2*
FPM = Further Pure Mathematics

Topic	Pages	Notes
16.1 Proof	515–526	
16.2 Algebra and Functions	6–9, 13–28, 117–130, 305–308	Also *FPM* pp. 130–141, 147–148
16.3 Co-ordinate Geometry in the (*x*, *y*) Plane	140, 220–229	
16.4 Sequences and Series	230–261	
16.5 Trigonometry	334–378	Also *FPM* pp. 22–34
16.6 Differentiation	165–172, 292–310, 383–387	
16.7 Integration	209–215, 383–391, 433–441, 445–449	
16.8 Numerical Methods	472–486	Also *FPM* pp. 268–281

A2 Module P3 *Pure 3*
FPM = Further Pure Mathematics

Topic	Pages	Notes
17.1 Algebra and Functions	276–284	
17.2 Co-ordinate Geometry in the (*x*, *y*) Plane	319–320	Also *FPM* pp. 218–230
17.3 Sequences and Series	262–269, 288–290	
17.4 Exponentials and Logarithms	410–414, 463–466	
17.5 Differentiation	313–333, 457–466	Also *FPM* pp. 177–188
17.6 Integration	442–444, 457–462	
17.7 Numerical Methods		*FPM* pp. 286–292
17.8 Vectors	493–514	Also *FPM* pp. 94–102, 106–120

A2 Module P4 *Pure 4*
FPM = Further Pure Mathematics

Topic	Pages	Notes
18.1 Roots of Polynomials		*FPM* pp. 147–158
18.2 Complex Numbers		*FPM* pp. 1–21
18.3 De Moivre's Theorem		*FPM* pp. 330–354
18.4 Proof by Induction		*FPM* pp. 159–167
18.5 Finite Series		*FPM* pp. 159–161, 168–174
18.6 Hyperbolic Functions		*FPM* pp. 189–217
18.7 Arc Length and Area of Surface of Revolution		*FPM* pp. 250–259

A2 Module P5 *Pure 5*
FPM = Further Pure Mathematics

Topic	Pages	Notes
19.1 Series and Limits		*FPM* pp. 175–188, 259–261
19.2 Polar Co-ordinates		*FPM* pp. 43–52
19.3 Differential Equations – First Order		*FPM* pp. 57–61, 280–289
19.4 Differential Equations – Second Order		*FPM* pp. 61–79, 289–292

A2 Module P6 *Pure 6*
FPM = Further Pure Mathematics

Topic	Pages	Notes
20.1 Vectors and Three Dimensional Co-ordinate Geometry		*FPM* pp. 94–129
20.2 Matrix Algebra		*FPM* pp. 299–329
20.3 Solution of Linear Equations		*FPM* pp. 87–90
20.4 Determinants		*FPM* pp. 80–93, 303
20.5 Linear Independence		*FPM* pp. 88–90

***Further Pure Mathematics* by Brian and Mark Gaulter**

AQA Specification A Syllabus Grid

AS Module Me *Methods*
IPM = Introducing Pure Mathematics
IS = Introducing Statistics
US = Understanding Statistics

Topic	Pages	Notes
12.1 Algebra		*IPM* pp. 1–42, 117–129, 404–409
12.2 Co-ordinate Geometry		*IPM* pp. 131–147
12.3 Differentiation		*IPM* pp. 156–185
12.4 Integration		*IPM* pp. 189–200
12.5 Data		*IS* pp. 1–79 *US* pp. 1–25, 36–69
12.6 Probability		*IS* pp. 92–142 *US* pp. 114–166
12.7 Probability Distributions		*IS* pp. 143–163 *US* pp. 167–191

AS Module P1 *Pure 1*
IPM = Introducing Pure Mathematics

Topic	Pages	Notes
13.1 Proof		*IPM* pp. 515–526
13.2 Functions		*IPM* pp. 79–116
13.3 Sequences and Series		*IPM* pp. 230–261
13.4 Trigonometry		*IPM* pp. 45–48, 68–72, 334–354
13.5 Exponentials and Logarithms		*IPM* pp. 410–417
13.6 Differentiation		*IPM* pp. 156–188, 417–427
13.7 Integration		*IPM* pp. 189–195, 418–427
13.8 Numerical Methods		*IPM* pp. 472–478

A2 Module P2 *Pure 2*
IPM = Introducing Pure Mathematics

Topic	Pages	Notes
16.1 Proof		*IPM* pp. 515–526
16.2 Algebra and Functions	130–141, 147–148	Also *IPM* pp. 6–9, 13–28, 117–130, 305–308
16.3 Co-ordinate Geometry in the (x, y) Plane		*IPM* pp. 140, 220–229
16.4 Sequences and Series		*IPM* pp. 230–261
16.5 Trigonometry	22–34	Also *IPM* pp. 334–378
16.6 Differentiation		*IPM* pp. 165–172, 292–310, 383–387
16.7 Integration		*IPM* pp. 209–215, 383–391, 433–441, 445–449
16.8 Numerical Methods	268–281	Also *IPM* pp. 472–486

A2 Module P3 *Pure 3*

IPM = Introducing Pure Mathematics

Topic	Pages	Notes
17.1 Algebra and Functions		*IPM* pp. 276–284
17.2 Co-ordinate Geometry in the (x, y) Plane	218–230	Also *IPM* pp. 319–320
17.3 Sequences and Series		*IPM* pp. 262–269, 288–290
17.4 Exponentials and Logarithms		*IPM* pp. 410–414, 463–466
17.5 Differentiation	177–188	Also *IPM* pp. 313–333, 457–466
17.6 Integration		*IPM* pp. 442–444, 457–462
17.7 Numerical Methods	286–292	
17.8 Vectors	94–102, 106–120	*IPM* pp. 493–514

A2 Module P4 *Pure 4*

Topic	Pages	Notes
18.1 Roots of Polynomials	147–158	
18.2 Complex Numbers	1–21	
18.3 De Moivre's Theorem	330–354	
18.4 Proof by Induction	159–167	
18.5 Finite Series	159–161, 168–174	
18.6 Hyperbolic Functions	189–217	
18.7 Arc Length and Area of Surface of Revolution	250–259	

A2 Module P5 *Pure 5*

Topic	Pages	Notes
19.1 Series and Limits	175–188, 259–261	
19.2 Polar Co-ordinates	43–52	
19.3 Differential Equations – First Order	57–61, 280–289	
19.4 Differential Equations – Second Order	61–79, 289–292	

A2 Module P6 *Pure 6*

Topic	Pages	Notes
20.1 Vectors and Three Dimensional Co-ordinate Geometry	94–129	
20.2 Matrix Algebra	299–329	
20.3 Solution of Linear Equations	87–90	
20.4 Determinants	80–93, 303	
20.5 Linear Independence	88–90	

***Introducing Mechanics* by Brian Jefferson and Tony Beadsworth**

AQA Specification A Syllabus Grid

AS Module M1 *Mechanics 1*

Topic	Pages	Notes
14.1 Momentum in 1 and 2 Dimensions	8–20, 31–49, 97–106, 111–122	
14.2 Statics and Forces	50–65, 164–175	
14.3 Momentum	275–288	
14.4 Dynamics of a Particle Moving in a Straight Line	75–96, 169–175, 275–281	
14.5 Motion under Gravity	45–49, 80–85, 116–134	
14.6 Mathematical Modelling	1–7	

A2 Module M2 *Mechanics 2*

Topic	Pages	Notes
25.1 Statics	183–194, 221–236	
25.2 Dynamics in One Dimension	250–257, 266–295	
25.3 Dynamics in Two Dimensions	340–359	
25.4 Work, Energy and Power	50–51, 250–274, 348–349, 359–377, 381–391	
25.5 Modelling	1–7, 57–65	

A2 Module M3 *Mechanics 3*
FM = Further Mechanics

Topic	Pages	Notes
26.1 Statics	57–65, 183–211, 221–249, 301–317	
26.2 Moments of Inertia		*FM* pp. 201–224
26.3 Motion of Rigid Body about a Fixed Axis		*FM* pp. 224–230, 235–245

A2 Module M4 *Mechanics 4*
FM = Further Mechanics

Topic	Pages	Notes
27.1 Linear Differential Equations	97–121, 420–440	Also *FM* pp. 35–80
27.2 Dynamics in One Dimension	50–51, 392–419	Also *FM* pp. 81–96, 115–136, 145–154, 170–175
27.3 Dynamics in Two Dimensions		*FM* pp. 155–174
27.4 Modelling	1–7, 123–133, 342–350	*FM* pp. 246–247

***Further Mechanics* by Brian Jefferson and Tony Beadsworth**

AQA Specification A Syllabus Grid

AS Module M1 *Mechanics 1*
IM = Introducing Mechanics

Topic	Pages	Notes
14.1 Momentum in 1 and 2 Dimensions		*IM* pp. 8–20, 31–49, 97–106, 111–122
14.2 Statics and Forces		*IM* pp. 50–65, 164–175
14.3 Momentum		*IM* pp. 275–288
14.4 Dynamics of a Particle Moving in a Straight Line		*IM* pp. 75–96, 169–175, 275–281
14.5 Motion under Gravity		*IM* pp. 45–49, 80–85, 116–134
14.6 Mathematical Modelling		*IM* pp. 1–7

A2 Module M2 *Mechanics 2*
IM = Introducing Mechanics

Topic	Pages	Notes
25.1 Statics		*IM* pp. 183–194, 221–236
25.2 Dynamics in One Dimension		*IM* pp. 250–257, 266–295
25.3 Dynamics in Two Dimensions		*IM* pp. 340–359
25.4 Work, Energy and Power		*IM* pp. 50–51, 250–274, 348–349, 359–377, 381–391
25.5 Modelling		*IM* pp. 1–7, 57–65

A2 Module M3 *Mechanics 3*
IM = Introducing Mechanics

Topic	Pages	Notes
26.1 Statics		*IM* pp. 57–65, 183–211, 221–249, 301–317
26.2 Moments of Inertia	201–224	
26.3 Motion of Rigid Body about a Fixed Axis	224–230, 235–245	

A2 Module M4 *Mechanics 4*
IM = Also *Introducing Mechanics*

Topic	Pages	Notes
27.1 Linear Differential Equations	35–80	Also *IM* pp. 97–121, 420–440
27.2 Dynamics in One Dimension	81–96, 115–136, 145–154, 170–175	Also *IM* pp. 50–51, 392–419
27.3 Dynamics in Two Dimensions	155–174	
27.4 Modelling	246–247	Also *IM* pp. 1–7, 123–133, 342–350