

AS Level Further Mathematics

Exam Board - Edexcel

Subject Code 8FMO

(NB There is an AS in this subject, normally in Mid May)

Year 12

There are a number of different options which can be chosen for this subject, dependent on staffing, timetabling and the interests of the students!

Core Pure 1 is compulsory. Options can be chosen in Further Pure, Statistics, Mechanics and Decision Mathematics. This scheme of work was chosen for the academic year 2017-8.

Year 1		
Autumn half term 1		58h
Core P (AS)	Unit 3: Complex numbers (part 2) 6 Prereqs	6h
Core P (AS)	Unit 1: Complex numbers (part 1) 6 Prereqs	15h
Core P (AS)	Unit 4: Series Prereq: Pure Unit 6b: Series and sequences	4h
Core P (AS)	Unit 2a-b: Matrices 3 Prereqs	8h
Core P (AS)	Unit 2c-d: Matrices 3 Prereqs	18h
Core P (AS)	Unit 5: Algebra and functions Prereq: Pure (AS) Unit 2: Further algebra	7h
Autumn half term 2		36h
Core P (AS)	Unit 6: Proof 7 Prereqs	6h
Core P (AS)	Unit 8: Calculus Prereq: Pure (AS) Unit 3: Differentiation	5h
D1 (AS)	Unit 1: Algorithms and graph theory (part 1)	12h
D1 (AS)	Unit 2: Algorithms on graphs I (part 1) Prereq: D1 (AS) Unit 1: Algorithms and graph theory (part 1)	8h
D1 (AS)	Unit 3: Algorithms on graphs II (part 1) 2 Prereqs	5h
Spring half term 1		50h
Core P (AS)	Unit 7: Vectors 3 Prereqs	21h
FS1 (AS)	Unit 2: Discrete probability distributions 2 Prereqs	9h
FS1 (AS)	Unit 1: Poisson and binomial distributions (part 1) 2 Prereqs	8h
FS1 (AS)	Unit 3a-b: Poisson and binomial distributions (part 2) 3 Prereqs	10h
D1 (AS)	Unit 4a: Linear programming (part 1)	2h
Spring half term 2		19h
FS1 (AS)	Unit 3c: Poisson and binomial distributions (part 2) 3 Prereqs	4h
FS1 (AS)	Unit 4a(i). Chi squared tests (part 1) 3 Prereqs	4h
D1 (AS)	Unit 4b: Linear programming (part 1)	6h
D1 (AS)	Unit 5a. Critical path analysis (part 1) Prereq: D1 (AS) Unit 1: Algorithms and graph theory (part 1)	5h
Summer half term 1		17h
FS1 (AS)	Unit 4a(ii). Chi squared tests (part 1) 3 Prereqs	10h
D1 (AS)	Unit 5b-c: Critical path analysis (part 1) Prereq: D1 (AS) Unit 1: Algorithms and graph theory (part 1)	7h
Summer half term 2		0h