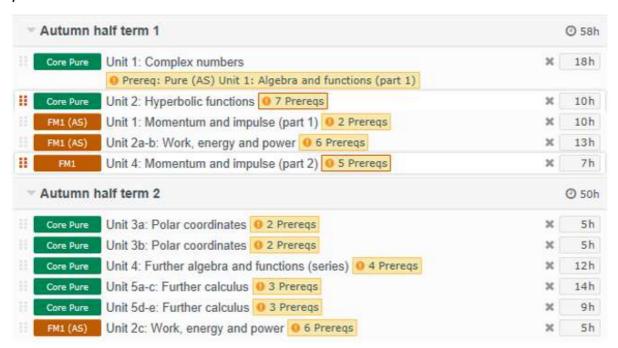# A Level Further Mathematics

Exam Board – Edexcel

Subject Code 9FM0

Year 13

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 2 is compulsory. Options can be chosen in Further Pure, Statistics, Mechanics and Decision Mathematics. This scheme of work is likely to be used for the academic year 2018-9.

▾ **Autumn half term 1**		⊘ 58h	
Core Pure	Unit 1: Complex numbers	✖	18h
	❶ Prereq: Pure (AS) Unit 1: Algebra and functions (part 1)		
Core Pure	Unit 2: Hyperbolic functions ❶ 7 Prereqs	✖	10h
FM1 (AS)	Unit 1: Momentum and impulse (part 1) ❶ 2 Prereqs	✖	10h
FM1 (AS)	Unit 2a-b: Work, energy and power ❶ 6 Prereqs	✖	13h
FM1	Unit 4: Momentum and impulse (part 2) ❶ 5 Prereqs	✖	7h
▾ **Autumn half term 2**		⊘ 50h	
Core Pure	Unit 3a: Polar coordinates ❶ 2 Prereqs	✖	5h
Core Pure	Unit 3b: Polar coordinates ❶ 2 Prereqs	✖	5h
Core Pure	Unit 4: Further algebra and functions (series) ❶ 4 Prereqs	✖	12h
Core Pure	Unit 5a-c: Further calculus ❶ 3 Prereqs	✖	14h
Core Pure	Unit 5d-e: Further calculus ❶ 3 Prereqs	✖	9h
FM1 (AS)	Unit 2c: Work, energy and power ❶ 6 Prereqs	✖	5h

Spring half term 1   ⊘ 54h

Core Pure	Unit 6a. Differential equations ❶ 2 Prereqs	✖	6h
Core Pure	Unit 6b-c: Differential equations ❶ 2 Prereqs	✖	11h
D1	Unit 6: Algorithms and graph theory (part 2)	✖	5h
D1	Unit 7: Algorithms on graphs I (part 2)	✖	6h
	❶ Prereq: D1 (AS) Unit 1: Algorithms and graph theory (part 1)		
D1	Unit 8: Algorithms on graphs II (part 2) ❶ 2 Prereqs	✖	9h
FM1 (AS)	Unit 3a: Elastic collisions in one dimension ❶ 4 Prereqs	✖	8h
FM1 (AS)	Unit 3b: Elastic collisions in one dimension ❶ 4 Prereqs	✖	9h

Spring half term 2   ⊘ 40h

FM1	Unit 5a: Elastic strings and springs and elastic energy ❶ 9 Prereqs	✖	7h
FM1	Unit 5b: Elastic strings and springs and elastic energy ❶ 9 Prereqs	✖	11h
FM1	Unit 6a(i): Elastic collisions in two dimensions ❶ 13 Prereqs	✖	7h
D1	Unit 9a-b: Linear programming (part 2)	✖	8h
D1	Unit 9c: Linear programming (part 2)	✖	7h

Summer half term 1   ⊘ 23h

FM1	Unit 6a(ii): Elastic collisions in two dimensions ❶ 13 Prereqs	✖	2h
FM1	Unit 6b(i): Elastic collisions in two dimensions ❶ 13 Prereqs	✖	5h
D1	Unit 10b: Critical path analysis (part 2)	✖	5h
	❶ Prereq: D1 (AS) Unit 1: Algorithms and graph theory (part 1)		
D1	Unit 10a: Critical path analysis (part 2)	✖	5h
	❶ Prereq: D1 (AS) Unit 1: Algorithms and graph theory (part 1)		
FM1	Unit 6b(ii): Elastic collisions in two dimensions ❶ 13 Prereqs	✖	6h

Summer half term 2   ⊘ 0h

Revision	Revision (A level)	✖	0h
Exams	Formal examination (A level)	✖	0h
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