

## Part IA Non-examinable Mechanics

In this table, all the topics covered in the lectures are listed together with (roughly) the module in which they appear for the different examination boards.

**Key:**

M1, etc = Mechanics module;

A = single subject maths for pre-U , F = Further maths for pre-U/CIE;

For the IB: Ph C = Physics Core, PhAHL = Physics (Additional material for) HL;

For Scottish exams: AHM = Advanced Higher Mechanics, PH = Physics Higher, PAH = Physics Advanced Higher.

Topic	OCR	MEI	Edexcel	AQA	WJEC	CCEA	IB	Pre-U	Scottish	CIE	Lecture
Force as a vector/resolving	M1	M1	M1	M1	M1	M1	Ph C 1.3/2.2	A	AHM1,PH1	M1	L1, L2, L3
Applications to systems of multiple forces	M1	M1	M1/2	M1	M1/3	M1/4		A	AHM1/PH1	M1,F2	L1, L2,L3
Newton's Laws	M1	M1	M1	M1	M1	M1	Ph C 2.2	A	AHM1	M1	L6
Friction: forces and coefficient	M1	M1/2	M1	M1	M1	M1	(Ph C 2.2)	A	AHM1	M1	L1
Kinematics (elementary cases)	M1	M1	M1	M1	M1	M1	HL/ Ph C 2.1	A	AHM1/PH1	M1	L5
Projectiles	M2	M1	M2	M1/3	M2	M2	Ph AHL 9.1	A	AHM1	M2	L5
Linear momentum	M1	M2	M1/2	M1/3	M1	M1	Ph C 2.2	A	AHM1/2,PH1	F2	L9
Impulse	M1/2	M2	M1	M3	M1	M1	Ph C 2.2	A	AHM2,PH1	F2	L10
Coefficient of restitution	M2	M2	M2	M3	M1	M4		A	(PH1)	F2	L9, L10
Work	M2	M2	M2	M2	M2	M2	Ph C 2.3	F	AHM2	M1	L7
PE/KE	M2	M2	M2	M2	M2	M2	Ph C 2.3/ Ph AHL 9.2	F	AHM2	M1	L7
Power	M2	M2	M2	M2	M2	M2	Ph C 2.3	F	AHM2	M1	L8
Conservation of energy	M2	M2	M2	M2	M2	M2	Ph C 2.3	F	?	M1	L7, L8
Hooke's Law, springs and strings	M3	M3	M3	M2	M2	M3		F	AHM2	M2	L11
Moments	M2	M2	M1/2	M2	M1/3	M1		?	(PAH)	M2,F2	L2, L3
Centre of mass	M2	M2	M2	M2	M1	M3		?	(PAH)	M2	L4
Circular motion	M2	M3	M3	M2	M2	M2	Ph C 2.4	F	AHM2/PAH	M2	L12, L13
SHM	M3	M3	M3	M5	M3	M3	Ph AHL 4.1/4.4	F	AHM2/PAH	F2	L11