

STEM Foundation Year Physics 25/26

Modules & Assessment

Trimesters 1 & 2

Foundation Physics A [*mechanics.matter.waves*]

Material will be selected from Sections of the main course book: A-Level Physics for AQA: Year 1 & 2 Student Book with Online Edition (2018).

- Section 4 – Mechanics, • Section 5 – Materials, • Section 8 – Thermal Physics
- Section 3 – Waves

Coursework: Core Physics A skills 1, 50%

Coursework: Core Physics A skills 2, 50%

Foundation Physics B [*electricity.fields.atoms*]

Material will be selected from Sections of the main course book: A-Level Physics for AQA: Year 1 & 2 Student Book with Online Edition (2018).

- Section 1 – Particles and Radiation, • Section 6 – Electricity, • Section 10 – Capacitors, • Section 2 – Electromagnetic Radiation and Quantum Phenomena,
- Section 9 – Gravitational and Electric Fields, • Section 12 – Nuclear Physics

Coursework: Core Physics B skills 1, 50%

Coursework: Core Physics B skills 2, 50%

Foundation Physics Laboratory † [*design.analysis.experiments*]

- Experimental Design
- Methods of Scientific Measurement
- Data Analysis and Errors
- Experiments covering: Mechanics, Thermal Physics, Electricity, and Waves

Coursework: Core Laboratory skills, 50%

Coursework: Laboratory Journal, 50%

Foundation IT and Study Skills [*careers.skills.exercises*]

- Seminar Series - Careers in Physics and Engineering
- IT Skills
- Presentation Skills
- Problem-based Learning Exercises

Coursework: Core Physics skills, 50%

Coursework: IT skills, 50%

† **For Mathematics with Foundation Year students only, the following module replaces Foundation Physics Laboratory:**

Introduction to Probability and Statistics [*probability.statistics.properties*]

- **Outline contents:** basic statistics and using “R programming language”
- Statistical graphs, confidence intervals. Probability properties, functions and graphs
- Combinatorics. Expectation and variance
- Hypothesis testing and comparisons of populations
- Central limit theorem. Nonparametric statistics

Coursework: Core skills 1, 50%

Coursework: Core skills 2, 50%

Trimester 1

Foundation Mathematics 1 [*algebra.geometry.matrices*]

- **Outline contents:** algebra, formulae and manipulation
- Functions, graphs and properties
- Trigonometry
- Co-ordinate systems, geometry and matrices

Coursework: Core Maths skills 1, 50%

Coursework: Core Maths skills 2, 50%

Trimester 2

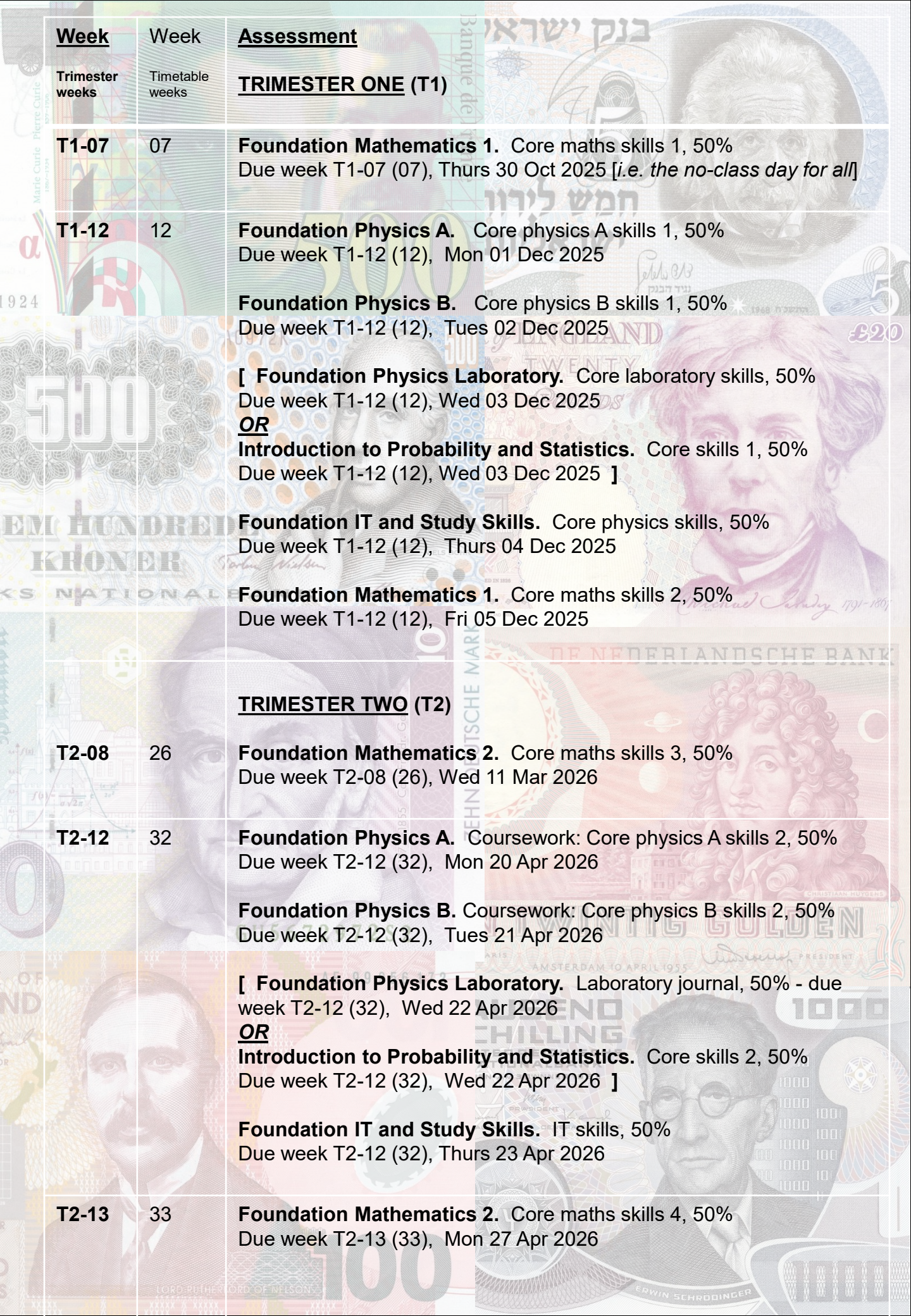
Foundation Mathematics 2 [*vectors.calculus.series*]

- **Outline contents:** Vectors and complex numbers
- Introduction to calculus
- Differentiation of functions and rules of differentiation
- Integration of functions and rules of integration
- Sequences and series

Coursework: Core Maths skills 3, 50%

Coursework: Core Maths skills 4, 50%

Note on week numbers. Week numbering starts with Induction Week as week 0, and then Trimester 1 (T1) *teaching weeks* start with week 01. The *timetabling week* numbers then continue throughout the year, up to week 51 (including vacation weeks) – shown in brackets on next page. It is useful to list timetabling and teaching weeks – the latter such as in Trimester 2: T2-01 being the first teaching week of Trimester 2. *See the next pages for detailed breakdowns of dates and week numbering.*



Week

Week

Assessment

Trimester weeks

Timetable weeks

TRIMESTER ONE (T1)

T1-07

07

Foundation Mathematics 1. Core maths skills 1, 50%
Due week T1-07 (07), Thurs 30 Oct 2025 [*i.e. the no-class day for all*]

T1-12

12

Foundation Physics A. Core physics A skills 1, 50%
Due week T1-12 (12), Mon 01 Dec 2025

Foundation Physics B. Core physics B skills 1, 50%
Due week T1-12 (12), Tues 02 Dec 2025

[Foundation Physics Laboratory. Core laboratory skills, 50%
Due week T1-12 (12), Wed 03 Dec 2025
OR
Introduction to Probability and Statistics. Core skills 1, 50%
Due week T1-12 (12), Wed 03 Dec 2025]

Foundation IT and Study Skills. Core physics skills, 50%
Due week T1-12 (12), Thurs 04 Dec 2025

Foundation Mathematics 1. Core maths skills 2, 50%
Due week T1-12 (12), Fri 05 Dec 2025

TRIMESTER TWO (T2)

T2-08

26

Foundation Mathematics 2. Core maths skills 3, 50%
Due week T2-08 (26), Wed 11 Mar 2026

T2-12

32

Foundation Physics A. Coursework: Core physics A skills 2, 50%
Due week T2-12 (32), Mon 20 Apr 2026

Foundation Physics B. Coursework: Core physics B skills 2, 50%
Due week T2-12 (32), Tues 21 Apr 2026

[Foundation Physics Laboratory. Laboratory journal, 50% - due
week T2-12 (32), Wed 22 Apr 2026

OR
Introduction to Probability and Statistics. Core skills 2, 50%
Due week T2-12 (32), Wed 22 Apr 2026]

Foundation IT and Study Skills. IT skills, 50%
Due week T2-12 (32), Thurs 23 Apr 2026

T2-13

33

Foundation Mathematics 2. Core maths skills 4, 50%
Due week T2-13 (33), Mon 27 Apr 2026

Academic Year by Week 2025/26 - with Foundation Year Assessments

week begins (Monday)	Trimesters	timetable wk no	pool rooms bookable for teaching and revision	
8 September 2025	<i>Welcome/Induction</i>		0	
15 September 2025	Trimester 1	1	1	
22 September 2025	Trimester 1	2	2	✓
29 September 2025	Trimester 1	3	3	✓
6 October 2025	Trimester 1	4	4	✓
13 October 2025	Trimester 1	5	5	✓
20 October 2025	Trimester 1	6	6	✓
27 October 2025	Trimester 1	7	7	✓
3 November 2025	Trimester 1	8	8	✓
10 November 2025	Trimester 1	9	9	✓
17 November 2025	Trimester 1	10	10	✓
24 November 2025	Trimester 1	11	11	✓
1 December 2025	Trimester 1	12	12	✓
8 December 2025	Trimester 1	13	13	✓
15 December 2025	<i>Christmas Vacation</i>		14	
22 December 2025	<i>Christmas Vacation</i>		15	
29 December 2025	<i>Christmas Vacation</i>		16	
5 January 2026	<i>Christmas Vacation</i>		17	
12 January 2026	<i>Welcome/Induction</i>		18	✓
19 January 2026	Trimester 2	1	19	✓
26 January 2026	Trimester 2	2	20	✓
2 February 2026	Trimester 2	3	21	✓
9 February 2026	Trimester 2	4	22	✓
16 February 2026	Trimester 2	5	23	✓
23 February 2026	Trimester 2	6	24	✓
2 March 2026	Trimester 2	7	25	✓
9 March 2026	Trimester 2	8	26	✓
16 March 2026	Trimester 2	9	27	✓
23 March 2026	Trimester 2	10	28	✓
30 March 2026	Trimester 2	11	29	✓
6 April 2026	<i>Easter Vacation</i>		30	(Bank Holiday Monday)
13 April 2026	<i>Easter Vacation</i>		31	
20 April 2026	Trimester 2	12	32	✓
27 April 2026	Trimester 2	13	33	✓

ASSESSMENTS

MATHS 1

FPA, FPB, LAB or P&STATS, F IT & SKILLS, MATHS 2

MATHS 3

FPA, FPB, LAB/P&STATS, FIT&SKILLS

MATHS 4

Assessment for T1	CRN	Deadline*	Module leader
Foundation Phys A,	50142	Mon 01Dec 2025 at 4pm	Graham
Foundation Phys B	50143	Tues 02Dec 2025 at 4pm	Mark
Foundation Labortarory	50158	Wed 03Dec 2025 at 4pm	Marina
Intro to Probability and statistics,	52785	Wed 03Dec 2025 at 4pm	Jon Borresen
Foundation It and study skills,	50159	Thurs 04Dec 2025 at 4pm	Marina
FMaths1	52551	Thurs 30Oct 2025 Fr 05Dec 2025	Kevin

*Assessments will be relesed on the same day as the deadline at 9 am.

IYR

Foundation Phys A,	50142	Mon 26Jan 2026	Graham
Foundation Phys B	50143	Tues 27Jan 2026	Mark
Foundation Labortarory	50158	Wed 14 Jan or/and 21 Jan 2026 (practicals)* Wed 28Jan 2026 for work submission	Marina
Intro to Probability and statistics,	52785	Wed 28Jan 2026	Jon Borresen
Foundation It and study skills,	50159	Thurs 29Jan 2026	Marina
FMaths1	52551	Fr 30Jan 2026	Kevin

*Days for the practicals for IYR opportunity TBC

Assessments for T2

		Release day	
Foundation Phys A,	50142	Mon 20 April 2026	Graham
Foundation Phys B	50143	Tues 21 April 2026	Marina
Foundation Labortarory	50158	Wed 22 April 2026	Tiehan
Intro to Probability and statistics,	52785	Wed 22 April 2026	Jon Borresen
Foundation It and study skills,	50159	Thurs 23April 2026	James
FMaths2	52552	Wed 11March 2026 Mon 27 April 2026	Graham

Reassessments

		Release day	
Foundation Labortarory	50158	7/8/9th July 2026 (practials) Wed 15 July 2026, work submission	Marina/Tiehan
Foundation Phys A,	50142	Mon 13 July 2026	Graham
Foundation Phys B	50143	Tues 14 July 2026	Marina
Intro to Probability and statistics,	52785	Wed 15 July 2026	Jon
FMaths1	52551	Thurs 16 July 2026	Kevin
FMaths2	52552	Mon 20 July 2026 Tues 21 July 2026	Graham
Foundation It and study skills,	50159	Fr 17 July2026	James