Foundation Year Physics 23/24 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

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- 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), Tues 31 Oct 2023
T1-12	12	[Foundation Physics Laboratory. Core laboratory skills, 50% Due week T1-12 (12), Mon 04 Dec 2023 OR Introduction to Probability and Statistics. Core skills 1, 50% Due week T1-12 (12), Tues 05 Dec 2023]
		Foundation IT and Study Skills. Core physics skills, 50% Due week T1-12 (12), Wed 06 Dec 2023
		Foundation Physics A. Core physics A skills 1, 50% Due week T1-12 (12), Fri 08 Dec 2023
T1-13	13 (B)	Foundation Physics B. Core physics B skills 1, 50% Due week T1-13 (13), Tues 12 Dec 2023
NATI	ONAL	Foundation Mathematics 1. Core maths skills 2, 50% Due week T1-13 (13), Thur 14 Dec 2023
		TRIMESTER TWO (T2)
T2-08	25	Foundation Mathematics 2. Core maths skills 3, 50% Due week T2-08 (25), Thur 07 Mar 2024
T2-11	31	[Foundation Physics Laboratory. Laboratory journal, 50% - due week T2-11 (31), Fri 19 Apr 2024 OR Introduction to Probability and Statistics. Core skills 2, 50% Due week T2-11 (31), Fri 19 Apr 2024]
T2-12	32	Foundation IT and Study Skills. IT skills, 50% Due week T2-12 (32), Tues 23 Apr 2024
		Foundation Mathematics 2. Core maths skills 4, 50% Due week T2-12 (32), Thur 25 Apr 2024
T2-13	33	Foundation Physics B. Coursework: Core physics B skills 2, 50% Due week T2-13 (33), Tues 30 Apr 2024
		Foundation Physics A. Coursework: Core physics A skills 2, 50% Due week T2-13 (33), Thur 02 May 2024



Academic Year by Week 2023/24 - with Foundation Year Assessments

11 September 2023	NTS
25 September 2023	NTS
2 October 2023 9 October 2023 16 October 2023 Trimester 1	NTS
9 October 2023 16 October 2023 Trimester 1	NTS
16 October 2023	
23 October 2023	,
30 October 2023	
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6 November 2023 Trimester 1 8 8 ✓	
13 November 2023	
20 November 2023 Trimester 1 10 10 ✓	
27 November 2023	
4 December 2023 Trimester 1 12 12 ✓ LAB or P&STATS, SKILLS, F	PA
11 December 2023	
18 December 2023 Christmas Vacation 14	
25 December 2023 Christmas Vacation 15	
1 January 2024 Christmas Vacation 16	
o varidary 2021	-
15 January 2024	
Trimodol 2	
29 January 2024	*
5 February 2024	
12 Total Gary 2021 Trimostor 2 2 22	
To Toblidally 2021	
4 March 2024	-
18 March 2024 Trimester 2	
25 March 2024 Easter Vacation 28 (Bank Holiday Friday)	
1 April 2024 Easter Vacation 29 (Bank Holiday Monday)	
8 April 2024 Easter Vacation 30	
15 April 2024	
22 April 2024	
29 April 2024	
6 May 2024 Inter-Trimester Break 34 ✓ (Bank Holiday Monday)	-
13 May 2024 Inter-Trimester Break 35 ✓	-
20 May 2024 Inter-Trimester Break 36 ✓	
27 May 2024 Welcome/Induction 37 ✓ (Bank Holiday Monday)	
3 June 2024	
10 June 2024	
17 June 2024 Trimester 3 3 40 ✓	*
24 June 2024	İ
1 July 2024 Trimester 3 5 42 ✓	
8 July 2024 Trimester 3 6 43 ✓ Graduation Celebrations	
15 July 2024 Trimester 3 7 44 ✓	
22 July 2024 Trimester 3 8 45 ✓	
29 July 2024 Trimester 3 9 46 ✓	
5 August 2024	
12 August 2024	
19 August 2024	
26 August 2024 Trimester 3 13 50 ✓ (Bank Holiday Monday)	
2 September 2024 Inter-Trimester Break 51 ✓	
9 September 2024 Welcome/Induction 2024/25	

All events are subject to change

All teaching, revision and assessment shall take place within modules during the designated trimester periods. (Academic Regulations for Taught Programmes)