

### Content overview

Content is split into six teaching modules:

- **Module 1** – Development of practical skills in physics
- **Module 2** – Foundations of physics
- **Module 3** – Forces and motion
- **Module 4** – Electrons, waves and photons
- **Module 5** – Newtonian world and astrophysics
- **Module 6** – Particles and medical physics

**Component 01** assesses content from modules 1, 2, 3 and 5.

**Component 02** assesses content from modules 1, 2, 4 and 6.

**Component 03** assesses content from all modules (1 to 6).

### Assessment overview

#### Modelling Physics – component 01

100 marks - 2 hours 15 minutes  
Written paper

**37% of total A Level**

#### Exploring physics – component 02

100 marks - 2 hours 15 minutes  
Written paper

**37% of total A level**

#### Unified physics – component 03

70 marks - 1 hour 30 minutes  
Written paper

**26% of total A level**

#### Practical Endorsement in physics

Practical assessment, non-written component.

**Reported separately**

### OCR A Level Physics – OCR A H556

A content-led approach. A flexible approach where the specification is divided into topics, each covering different key concepts of physics.

As learners progress through the course they will build on their knowledge of the laws of Physics, applying their understanding to solve problems on topics ranging from sub-atomic particles to the entire universe.

The Practical Endorsement will also support the development of practical skills.

### Helping with Revision -parents

- Encourage your child to start revision as soon as possible – this should hopefully alleviate some of the stress and anxiety that exams can inevitably cause by removing the need for last minute cramming.
- Encourage your child to get organised and produce a revision timetable, ensuring that they space out the topics they cover.
- Ask your child if you can help them: checking their knowledge, using flashcards to quiz them, chatting about topics at meal times.
- Encourage them to attend intervention to work through any areas they are finding more difficult.
- Ensure they have breaks from studying, eat well and have a reasonable work/life balance.
- Seneca learning offers students a walkthrough to the entire A-Level physics course, and provides revision support.

Week	Autumn Term 1 - September 2020	Week	Spring Term 1 - January 2021	Week	Summer Term 1 – April 2021	
1	<b>Unit 2 – Foundations of Physics</b> Physical quantities, S.I. Units, Measurements & uncertainties, Scalars and Vectors	1	<b>Unit 3.3 – Energy and Power</b> Work, Conservation of energy, kinetic and potential energy, and power	1	<b>Unit 4.4 – Waves</b> Wave characteristics, Properties, EM waves, Superposition, Stationary waves	
2		2				
3		3	<b>Assessment – End of unit 3.3</b>	3		
4		4		<b>Unit 3.4 – Materials</b> Springs and mechanical properties of matter		4
5	<b>Assessment – End of unit and transition to A-level</b>	5	5			5
6		<b>Unit 3.1 – Forces and Motion</b> Kinematics, Linear motion, Projectile motion	6	<b>Unit 3.5 – Newton’s laws</b> Newton’s laws of motion, Collisions, Impulse	6	<b>Assessment – End of unit 4.4</b>
7	7		7			
8	8		<b>Assessment – End of unit 3.4/3.5</b>		8	<b>Unit 4.5 – Quantum physics</b> Photons, The photoelectric effect
Half - Term		Half - Term		Half - Term		
Week	Autumn Term 1 - September 2020	Week	Spring Term 1 - March 2021	Week	Summer Term 2 – May 2021	
1	<b>Assessment – End of unit 3.1</b>	1	<b>Unit 4.1/4.2 – Electrical properties</b> Mean drift velocity, Circuit symbols, Resistance, EMF and PD, Resistivity, Power	1	<b>Unit 4.5 – Quantum physics</b> Wave-Particle duality	
2	<b>Unit 3.2 – Forces in Action</b>	2		2		
3	<b>Assessment week</b>	3		3	<b>Assessment – End of unit 4.5</b>	
4	<b>Unit 3.2 – Forces in Action</b> Dynamics, Motion with non-uniform acceleration, equilibrium, Density & pressure	4		4		
5		5	<b>Assessment – End of unit 4.1/4.2</b>	4	Catch-up - Practical skills	
6	<b>Assessment – End of unit 3.2</b>	6		<b>Unit 4.3 – Electrical circuits</b> Series and parallel circuits, Internal resistance, Potential dividers	5	<b>Assessment week</b>
7	<b>Unit 3.3 – Energy and Power</b>	7	7		6	<b>Year 13 content to begin</b>

# Supporting Your Child through A-Level

## Physics – Year 13

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1	<b>Unit 5.1 – Thermal Physics</b> Temperature, Solids, Liquids, Gases, Thermal properties of materials	1	<b>Unit 5.5 – Astrophysics and cosmology</b>	1	<b>Unit 6.4 Nuclear and particle physics</b>
2		2		2	
3		3	3	3	
4	<b>Assessment – End of unit 4.5</b>	4	<b>Unit 6.1 – Capacitors</b>	4	<b>Unit 6.5 – Medical imaging</b>
5	<b>Assessment – Gap baseline</b>	5		5	
6	<b>Unit 5.1 – Thermal Physics</b> Ideal gases	6	<b>Mocks 2</b>	6	
7		7		7	Half - Term
8	8	8	8	Half - Term	
Half - Term		Half - Term			Half - Term
Week	Autumn Term 1 - September 2020	Week	Spring Term 1 - March 2021	Week	Summer Term 2 – May 2021
1	<b>Mock assessment 1</b>	1	<b>Assessment – End of unit 6.1/6.2</b>	1	PAG Work Starts alongside revision to supplement simulations from lesson
2	<b>Unit 5.1 – Thermal Physics</b> Ideal gases	2		2	
3	<b>Unit 5.4 – Gravitational fields</b>	3	<b>Unit 6.3 - Electromagnetism</b>	3	
4	<b>Mock assessment 2</b>	4		4	
5	<b>Unit 5.4 – Gravitational fields</b>	5		5	
6	<b>Unit 5.5 – Astrophysics and cosmology</b>	Exams Start			
7		Exams Start			

**Unit 5.2 (Circular motion) and Unit 5.4 (Oscillations) to run alongside the teaching of all additional units.**