



# SCIENCE YEAR PLANNER (LTP)

## YEAR 12 AS Physics 2018-19- WTR-FXX



Term	Teacher	Learning content/skills	Assessment schedule	Home Learning Support (How students can extend learning in addition to homework)
Autumn 1	<b>Teacher 1</b> (5 lessons per fortnight)  WTR – 12B1/Ph1	<b>Module 1 Development of practical skills in Physics</b> - 1.1 Practical skills assessed in a written examination <b>Module 2 Foundations of Physics</b> - 2.1 Physical quantities, units and measurements - 2.2 Nature of quantities	CAT for: 1.1, 2.1 and 2.2 Common HW for: 1.1, 2.1 and 2.2 End of unit test for: 1.1, 2.1 and 2.2 (1 hour)	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly
	<b>Teacher 2</b> (4 lessons per fortnight)  FXX – 12B1/Ph1	<b>Module 4 Electrons, Waves and Photons</b> - 4.1 Electricity: charge and current - 4.3 Electricity: electrical circuits Lessons 1-10	CAT for: 4.1, 4.3 Common HW for: 4.1, 4.3 End of unit tests for: 4.1 and 4.3 (1 hour each) PAG 4.1 Investigating circuits	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly
Autumn 2	<b>Teacher 1</b> (5 lessons per fortnight)  WTR – 12B1/Ph1	<b>Module 2 Foundations of Physics</b> - 2.2 Nature of quantities <b>Module 3 Forces and Motion</b> - 3.1 Motion	CAT for: 2.2 and 3.1 Common HW for: 2.2 and 3.1 End of unit test for: 2.2 and 3.1(1 hour) PAG 1.1 Acceleration of freefall	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly
	<b>Teacher 2</b> (4 lessons per fortnight)  FXX – 12B1/Ph1	<b>Module 4 Electrons, Waves and Photons</b> - 4.4 Waves – lessons 1-10 Revision for PPE	PAG 5.3 Using an oscilloscope	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly

\*All assessments may be subject to alteration to best suit the learning needs of students.

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Spring 1	<b>Teacher 1</b> (5 lessons per fortnight)  WTR – 12B1/Ph1	<b>Module 3 Forces and Motion</b> - 3.2 Forces in action - 3.3 Work, energy and power	CAT for: 3.2 and 3.3 Common HW for: 3.2 and 3.3 End of unit test for: 3.2 and 3.3(1 hour each) PAG 1.2 Terminal velocity	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly
	<b>Teacher 2</b> (4 lessons per fortnight)  FXX – 12B1/Ph1	<b>Module 4 Electrons, Waves and Photons</b> - 4.2 Electricity: energy, power and resistance Complete electricity	CAT for: 4.2 Common HW for: 4.2 End of unit test for: 4.2(1 hour) PAG 3.1 resistivity of metal	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly
Spring 2	<b>Teacher 1</b> (5 lessons per fortnight)  WTR – 12B1/Ph1	<b>Module 3 Forces and Motion</b> -3.4 Materials -3.5 Newton’s laws of motion	CAT for: 3.4 and 3.5 Common HW for: 3.4 and 3.5 End of unit test for: 3.4 and 3.5 (1 hour each) PAG 2.1 Young modulus of a wire PAG 2.2 springs in series and parallel	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly
	<b>Teacher 2</b> (4 lessons per fortnight)  FXX – 12B1/Ph1	<b>Module 4 Electrons, Waves and Photons</b> -4.4 Waves – lessons 11-16 Complete waves	CAT + Common HW for: 4.4 PAG 5.1 finding wavelength using a diffraction grating PAG 5.2 Kundt’s resonance tube	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly

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<b>Summer 1</b>	<b>Teacher 1</b> (5 lessons per fortnight)  WTR – 12B1/Ph1	<b>Completion of Module 3 Forces and Motion</b> -3.4 Materials -3.5 Newton’s laws of motion Revision for AS exams and consolidation of the course		Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly -Revision Booklets
	<b>Teacher 2</b> (4 lessons per fortnight)  FXX – 12B1/Ph1	<b>Completion of Module 4 Electrons, Waves and Photons</b> - 4.5 Quantum physics Revision for AS exams and consolidation of the course	<b>CAT for: 4.5</b> <b>Common HW for: 4.5</b> <b>End of unit test for: 4.4 and 4.5(1 hour each)</b> <b>PAG 6.1 Planck constant</b>	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly -Revision Booklets
<b>AS exam and exam leave</b>				
<b>Summer 2</b>	<b>Teacher 1</b> (5 lessons per fortnight)  WTR – 12B1/Ph1	<b>Module 6 Particles and medical physics</b> - 6.5 Medical imaging	<b>CAT for: 6.5</b> <b>Common HW for: 6.5</b> <b>End of unit test for: 6.5(1 hour)</b>	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly
	<b>Teacher 2</b> (4 lessons per fortnight)  FXX – 12B1/Ph1	<b>Introduction to theory of Logs and application in presentation of practical data in log graphs .</b> <b>PAG 12.1 and 12.2 research tasks</b>	<b>PAG 12.1 and 12.2 research tasks</b> <b>Presentation for PAG 12.1</b>	Access to past paper questions via Firefly pages and also access to all lesson resources via Firefly <b>PAG 12 .2 completed over the holidays</b>