



# Long Term Plan

IAL Physics



2021-2022	Autumn 1 7 weeks	Autumn 2 7 weeks	Spring 1 7 weeks	Spring 2 7 weeks	Summer 7 weeks	
Year 12	<b>Unit 1: Forces and Motion</b> 1. Movement and position 2. Forces and Shape 3. Forces and Movement 4. Momentum	<b>Unit 1: Forces and Motion</b> 5. The turning effect of forces  <b>Unit 2: Electricity</b> 6. Mains Electricity 7. Current and Voltage in Circuits	<b>Unit 2: Electricity</b> 8. Electrical Resistance 9. Electric Charge  <b>Unit 3: Waves</b> 10. Properties of Waves 11. The electromagnetic spectrum	<b>Unit 3: Waves</b> 12. Light Waves 13. Sound  <b>Unit 4: Energy Resources and Energy Transfer</b> 14. Energy Transfers 15. Thermal Energy	<b>Unit 4: Energy Resources and Energy Transfer</b> 16. Work and Power 17. Energy Resources and Electricity Generation	<b>Unit 5: Solids, Liquids and Gases</b> 18. Density and Pressure 19. Solids Liquids and Gases
Year 13	<b>Topic 5: Further Mechanics</b> 5A. Further Momentum 5B. Circular Motion  Topic 6: Electric and Magnetic Fields 6A. Electric Fields	<b>Topic 6:</b> 6B. Capacitors 6C. Electromagnetic Effects  Topic 7: Nuclear and Particle Physics 7A. Probing Matter	<b>Topic 7:</b> 7B. Particle accelerators and detectors 7C. The Particle Zoo  Topic 8: Thermodynamics 8A. Heat and Temperature	<b>Topic 9: Nuclear Decay</b> 9A. Radioactivity Topic 10: Oscillations 10A. Oscillations  Topic 11: Astrophysics and Cosmology 11A. Gravitational Fields 11B. Space	Revision and exam preparation	