

COURSE TIMETABLE

Date	Physics Focus	Detail
Friday November 4th	Completed application forms returned	
Saturday November 5th 9.00am to 12.00pm <i>Refreshments provided.</i>	<ul style="list-style-type: none"> Issuing of accreditation folders An Effective Reflective Diary Forces 	<ul style="list-style-type: none"> What is expected for a candidate to successfully complete the maths accreditation course Common misconceptions Drawing force diagrams Newton's laws Calculating resultant forces and components of force Forces on a skydiver <ul style="list-style-type: none"> What is 'g'?
Saturday December 3rd 9.00am to 12.00 <i>Refreshments provided.</i>	<ul style="list-style-type: none"> Motion 	<ul style="list-style-type: none"> Vectors and scalars Distance-time and velocity-time graphs Calculating acceleration from graphs $v^2 = u^2 + 2as$ <ul style="list-style-type: none"> Momentum
Saturday January 14th 9.00am to 12.00 <i>Refreshments provided.</i>	<ul style="list-style-type: none"> Electricity 	<ul style="list-style-type: none"> Movement of charge p.d. and rope model Effects of current: thermal, magnetic, chemical Ohm's law: ohmic and non-ohmic resistors Series and parallel circuits and using multimeters
Saturday January 28th 9.00am to 12.00 <i>Refreshments provided.</i>	<ul style="list-style-type: none"> Static electricity and magnetism 	<ul style="list-style-type: none"> Using the Van De Graaf generator Electric fields <ul style="list-style-type: none"> Motor effect Induction <ul style="list-style-type: none"> Transformers
Saturday March 4th 9.00am to 12.00 <i>Refreshments provided.</i>	<ul style="list-style-type: none"> Heat, temperature and energy 	<ul style="list-style-type: none"> SHC and latent heat Cooling and heating curves 'new' approach to energy; pathways and stores Infrared and thermal conductivity
Saturday March 18th 9.00am to 12.00 <i>Refreshments provided.</i>	<ul style="list-style-type: none"> Using maths in physics 	<ul style="list-style-type: none"> Rearranging equations Estimating and order of magnitude calculations Calculator skills Graph skills
Residential Weekender Friday March 31st and Saturday April 1st 10.00am Friday to 12.00pm Saturday. <i>Lunch, Evening Meal, Accommodation and Breakfast provided.</i>	<ul style="list-style-type: none"> Waves and light Thinking like a physicist Additional forces for triple science 	<ul style="list-style-type: none"> Longitudinal and transverse waves Reflection Refraction Lenses, ray diagrams and the telescope Black body radiation What is a filter and how colour works What are the common themes throughout physics and how can they help us as teachers? 20 quick conceptual experiments Hooke's law <ul style="list-style-type: none"> Circular motion Fluid pressure <ul style="list-style-type: none"> Moments
Saturday May 13th 9.00am to 12.00 <i>Refreshments provided.</i>	<ul style="list-style-type: none"> Radioactivity 	<ul style="list-style-type: none"> Atomic structure and ionisation Measuring radioactivity Ionisation and penetration Difference between irradiation and radioactivity Radioactive decay and half life Fission and fusion, inc. nuclear power stations Balancing nuclear equations
Saturday June 17th 9.00am to 12.00 <i>Refreshments provided.</i>	<ul style="list-style-type: none"> Space and the expanding universe 	<ul style="list-style-type: none"> Spectral lines <ul style="list-style-type: none"> Red shift Big bang theory <ul style="list-style-type: none"> Stellar evolution Solar system
Saturday July 1st		Accreditation Certificates Award Ceremony