



Physics

Science has changed our lives and is vital to the world's future prosperity, and at Alamiyah, Physics will cover essential aspects of the knowledge, methods, processes and uses of Physics. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how physics can be used to explain what is occurring, predict how things will behave, and analyse causes.

Physics is concerned with the study of matter and its motion and behavior through space and time and the related entities of energy and force.

Physics Long Term Curriculum Plan

Area	Topic	Recommended Age/Stage
Buoyancy	<ul style="list-style-type: none"> • Purpose of Experiments With Buoyancy • Buoyancy and Archimedes' Principle • Pressure and Pascal's Law • Experiments with Buoyancy • Other Activities • The Importance of Buoyancy • Research Topics 	9-11 Y5-6
Gravity	<ul style="list-style-type: none"> • Purpose of Experiments With Gravity • The Force of Gravity • Experiments With Gravity • Other Activities • The Importance of Gravity • Research Topics 	9-11 Y5-6
Inertia	<ul style="list-style-type: none"> • Purpose of Experiments With Inertia • Inertia • Experiments With Inertia 	9-11 Y5-6



	<ul style="list-style-type: none"> • Other Activities • The Importance Of Inertia • Research Topics 	
Simple Machines	<ul style="list-style-type: none"> • Purpose of Experiments With Simple Machines • Simple Machines – History • Inclined Plane • Experiments With Inclined Planes • The Lever • Experiments With Levers • The Importance of Simple Machines • Research Topics 	9-11 Y5-6
Magnetism	<ul style="list-style-type: none"> • Purpose of Experiments With Magnetism • The Discovery of Magnetism • The Force of Magnetism • Uses of Magnets • Experiments With Magnetism • The Importance of Magnetism • Research Topics 	9-11 Y5-6
Electricity	<ul style="list-style-type: none"> • Purpose of Experiments With Electricity • The Discovery of Electricity • Electricity • Uses of Electricity • Experiments With Electricity • The Importance of Electricity • Research Topics 	9-11 Y5-6
The Electromagnetic Spectrum	<ul style="list-style-type: none"> • Purpose of Experiments With The Electromagnetic Spectrum • The History of Light • The Electromagnetic Spectrum: Visible Light 	9-11 Y5-6



	<ul style="list-style-type: none"> • The Electromagnetic Spectrum And Its Uses • Experiments With Light • The Importance of The Electromagnetic Spectrum • Research Topics 	
Sound	<ul style="list-style-type: none"> • Purpose of Experiments With Sound • The History of Sound • Sound Travels In Waves • Sound And Its Uses • Experiments With Sound • The Importance of Sound • Research Topics 	9-11 Y5-6