



Year 12						
Autumn Term		Spring Term		Summer Term		
Topic	Forces & Motion	Electricity	Work, Energy & Power	Waves	Quantum Physics	Newtonian World
Key Concepts	<ul style="list-style-type: none">Scalars & vectorsKinematicsLinear motionProjectile motionDynamicsMotion with non-uniform accelerationEquilibriumDensity & pressure	<ul style="list-style-type: none">Charge and currentMean drift velocityCircuit symbolse.m.f. and p.d.ResistanceResistivityPowerSeries & parallel circuitsInternal resistancePotential dividers	<ul style="list-style-type: none">Work and conservation of energyKinetic and potential energiesPowerSpringsMechanical properties of matterNewton's laws of motionCollisions	<ul style="list-style-type: none">Wave motionSuperpositionStationary wavesElectromagnetic waves	<ul style="list-style-type: none">PhotonsThe photoelectric effectWave-particle duality	<ul style="list-style-type: none">Thermal PhysicsCircular motionOscillations

Year 13						
Autumn Term		Spring Term		Summer Term		
Topic	Astrophysics and Fields	Particles	Fields	Medical physics	Revision	
Key Concepts	<ul style="list-style-type: none">Ideal GasesStarsCosmologyElectric fields	<ul style="list-style-type: none">Gravitational FieldsParticle physicsRadioactivityNuclear physics	<ul style="list-style-type: none">CapacitanceMagnetic fieldsRevision	<ul style="list-style-type: none">Medical imagingRevision	<ul style="list-style-type: none">Revision	




Years 12 & 13 Assessment

A Level: Physics



All students will sit an assessment and a mock examination in Year 12 and two mock examinations in Year 13.

	Year 12		Year 13		Revision Resources
	Assessment	Mock Exam	Mock Exam	Mock Exam	
	Autumn Term	Summer Term	Autumn Term	Spring Term	
Style of Assessment	A mixture of short, long answer and multiple-choice questions	A mixture of short, long answer and multiple-choice questions	A mixture of short, long answer and multiple-choice questions	A mixture of short, long answer and multiple-choice questions	Kennet Resources <ul style="list-style-type: none"> • Core Questions • Knowledge Organisers • Learning Habits
Topics Assessed	<ul style="list-style-type: none"> • Foundations of physics 	<ul style="list-style-type: none"> • Forces and Motion • Electricity • Energy, Work and Power • Waves • Quantum Physics 	<ul style="list-style-type: none"> • Forces & Motion • Electricity • Work, Energy & Power • Waves • Quantum Physics 	<ul style="list-style-type: none"> • Forces & Motion • Electricity • Work, Energy & Power • Waves • Quantum Physics • Circular Motion • Oscillations • Thermal Physics and Ideal Gases • Gravitational Fields • Electric Fields • Capacitors • Magnetic Fields • Astrophysics • Particles • Nuclear Physics • Radioactivity • Medical Physics 	External Resources <ul style="list-style-type: none"> • www.physicsandmathstutor.com • www.kerboodle.com <p>You can also find additional revision material on Frog </p>