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Physics

AQA

Getting Ready for KS4 (GCSE)

Getting Ready for KS4 (GCSE) Physics













Getting Ready for KS4 (GCSE)	GRF-01-001			
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Braking Distance	PHYS-2122			
Stopping Distance	PHYS-2126			
Resultant Forces	PHYS-2109			
Thinking Distance	PHYS-2128			
Circuit symbols	PHYS-2030			
Series & Parallel Circuits	PHYS-2025			
Hooke's Law	PHYS-2099			
Investigate the Relationship Between Force and Extension for a Spring	PHYS-28-001			
Distance/Time Graphs	PHYS-2105			

4.1/Energy

4.1.2/Conservation and dissipation of energy

Energy Stores and Transfers	PHYS-29-001			
Insulation	PHYS-2091			
Efficiency	PHYS-29-002			






4.1.1/Energy changes in a system, and the ways energy is stored before and after such changes

What is Energy?	PHYS-29-005			
Elastic Potential Energy	PHYS-29-003			
Gravitational Potential Energy	PHYS-2083			
Power	PHYS-29-004			

4.2/Electricity

4.2.4/Energy transfers

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Energy Transfers in the Home	PHYS-2074			
Power of an Electrical Device	PHYS-2064			
Power in the National Grid	PHYS-2063			
Transformers in the National Grid	PHYS-2056			

4.2.1/Current, potential difference and resistance

Factors Affecting Resistance	PHYS-2022		
Ohm's Law	PHYS-2023		
I & V Graphs	PHYS-2026		
Voltage	PHYS-2027		
Bulbs	PHYS-2028		
Circuit symbols	PHYS-2030		
Light-Dependent Resistors	PHYS-2031		
LEDs & Diodes	PHYS-2032		
Resistors	PHYS-2035		
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4.2.2/Series and parallel circuits

Series & Parallel Circuits	PHYS-2025			
Resistor Combinations	PHYS-2024			

4.2.3/Domestic uses and safety

AC/DC and Rectifiers	PHYS-2057		
Batteries & cells	PHYS-2058		
Insulation	PHYS-2060		
Fuses	PHYS-2061		
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Residual Current Devices	PHYS-2065		

4.2.5/Static electricity

Charge	PHYS-2066			
Charging Through Friction	PHYS-2067			
Like & Unlike Charges	PHYS-2070			
Uses of Electrostatics	PHYS-2071			

4.3/Particle model of matter

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4.3.2/Internal energy and energy transfers

Heat & Temperature	PHYS-2090			
Specific Heat Capacity	PHYS-2093			
Specific Latent Heat	PHYS-2095			

4.3.3/Particle model and pressure

Kinetic Theory	PHYS-2092			
Gas Pressure	PHYS-2098			

4.3.1/Changes of state and the particle model

Density	PHYS-2210			
States of matter	PHYS-2214			
Changes of state	PHYS-2211			

4.4/Atomic structure

4.4.2/Atoms and nuclear radiation

Alpha Particles	PHYS-2143			
Beta Particles	PHYS-2145			
Ionising & Detecting Radiation	PHYS-2149			
Gamma Rays	PHYS-2147			
Nuclear Reactions	PHYS-2154			
Half-life	PHYS-2148			
Radioactive Decay, Transmutation & Randomness	PHYS-2150			
Dangers of Radioactivity	PHYS-2146			

4.4.3/Hazards and uses of radioactive emissions and of background radiation

Background Radiation	PHYS-2144			
Uses Of Radiation	PHYS-2151			

4.4.4/Nuclear fission and fusion

Fusion	PHYS-2153			
Fission	PHYS-2152			

4.4.1/Atoms and isotopes

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The Atom	PHYS-2161			
Isotopes and the Periodic Table	PHYS-2158			
Protons, Neutrons & Quarks	PHYS-2160			
History	PHYS-2157			

4.5/Forces

4.5.3/Forces and elasticity

Elastic Potential Energy	PHYS-2097			
Hooke's Law	PHYS-2099			

4.5.6/Forces and motion

Acceleration	PHYS-2104			
Velocity/Time Graphs	PHYS-2113			
Newton's Second Law	PHYS-2106			
Newton's Second Law in Impacts	PHYS-2120			
Thinking Distance	PHYS-2128			
Stopping Distance	PHYS-2126			
Braking Distance	PHYS-2122			
Speed	PHYS-2110			
Distance/Time Graphs	PHYS-2105			

4.5.1/Forces and their interactions

Vectors & Scalars	PHYS-2112			
Resultant Forces	PHYS-2109			

4.5.7/Momentum

Momentum	PHYS-2117			
Momentum & Collisions	PHYS-2119			
Car Safety Devices	PHYS-2123			

4.5.2/Work done and energy transfer

Work Done	PHYS-2129			
Work Done (Part 2)	PHYS-2087			

4.5.4/Moments, levers and gears

Moments	PHYS-2133			
Stability and Levers	PHYS-2135			

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4.6/Waves

4.6.2/Electromagnetic waves

Frequency of a Wave	PHYS-2202			
Wireless Signals	PHYS-2167			
Infrared	PHYS-2169			
Radio Waves	PHYS-2172			
Ultraviolet Light	PHYS-2174			
X-rays	PHYS-2176			
Wavelength of a Wave	PHYS-2207			
Microwaves	PHYS-2170			
Visible Light	PHYS-2175			
Ray Diagrams	PHYS-2192			
Refraction	PHYS-2181			
Gamma Radiation	PHYS-2168			
The Effect Of Wavelength	PHYS-2171			
Power of Lenses	PHYS-2191			
Object, Image and Focal Point	PHYS-2190			
Concave and Convex Lenses	PHYS-2187			

4.6.1/Waves in air, fluids and solids

Wavelength and the Wave Formula	PHYS-2173			
Types of Wave	PHYS-2185			
Reflection	PHYS-2180			
Hearing Sound	PHYS-2178			
Ultrasound	PHYS-2186			
Seismic Waves	PHYS-2200			

4.7/Magnetism and electromagnetism

4.7.2/The motor effect

Electromagnets and Solenoids	PHYS-2049			
Left Hand Rule and Right Hand Rule	PHYS-2052			

4.7.3/Induced potential, transformers and the National Grid

Electromagnetic Induction	PHYS-2050			
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Generators PHYS-2051   

4.7.1/Permanent and induced magnetism, magnetic forces and fields


Magnetic Fields PHYS-2053   


4.8/Space physics

4.8.1/Solar system; stability of orbital motions; satellites

The Universe: Start & Finish PHYS-2010   

Sun & Other Stars PHYS-2008   

Life & Death of Stars PHYS-2001   




Satellite Uses PHYS-2016   




4.8.2/Red-shift




Redshift PHYS-2006   

Physics Practicals



Physics Practicals



Investigating the Densities of Solids and Liquids PHYS-28-002   




An Investigation to Find the Wavelength, Frequency and Speed of Waves in a Solid and a Liquid PHYS-28-003   




Investigating the Current-Voltage (I-V) Characteristics of a Component PHYS-28-004   




An Investigation to Determine the Specific Heat Capacity of One or More Materials PHYS-28-005   

Investigate the Relationship Between Force, Mass and Acceleration by Varying the Masses Added to Trolleys and the Force Pulling the Trolley PHYS-28-006  

Investigate the Reflection of Light by Different Types of Surface and the Refraction of Light by Different Substances PHYS-28-008  

Investigate the Effectiveness of Different Materials as Thermal Insulators PHYS-28-009   

Investigate How the Amount of Infrared Radiation Emitted or Absorbed by a Surface Depends on the Nature of that Surface PHYS-28-010   

Investigate the Relationship Between Force and Extension for a Spring PHYS-28-018   

Investigating Resistance PHYS-28-020  

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Additional Resources

Revision Skills and Tips - Physics

Revision Tips

Introduction	REV-001-009-001		
Before You Begin	REV-001-009-002		
Equations and Units	REV-001-009-003		
Mnemonics	REV-001-009-005		
Summary	REV-001-009-006		
Web Links	REV-001-009-007		

Revision and Study Skills

Introduction	REV-001-004-001		
Planning for Revision	REV-001-004-002		
Developing Independent Study Skills for Success	REV-001-004-003		
Managing Exam Stress	REV-001-004-004		
Keeping Your Brain Active During Revision	REV-001-004-005		
Summary	REV-001-004-006		
Web Links	REV-001-004-007		

GCSEPod's Top Revision Tips

GCSEPod's Top Revision Tips	REV-011-001		
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Revision Tips

Physics: Revision Tips

Scenarios to Help Your Memory	REV-01-001		
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Getting Ready for KS5 (A Level)

Getting Ready for KS5 (A Level) Physics

Getting Ready for KS5 (A Level)	GRF-01-002			
Refraction	PHYS-2181			
Object, Image and Focal Point	PHYS-2190			
Ray Diagrams	PHYS-2192			
Radioactive Decay, Transmutation & Randomness	PHYS-2150			
Nuclear Reactions	PHYS-2154			
Alpha Particles	PHYS-2143			

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Acceleration	PHYS-2104			
Series & Parallel Circuits	PHYS-2025			
Voltage	PHYS-2027			
Factors Affecting Resistance	PHYS-2022			
Bulbs	PHYS-2028			
Moments	PHYS-2133			
Momentum	PHYS-2117			
Momentum & Collisions	PHYS-2119			
Gravity & Orbits	PHYS-2012			
Satellite Uses	PHYS-2016			
Gravitational Potential Energy	PHYS-2083			
Insulation	PHYS-2060			
Conduction	PHYS-2088			

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