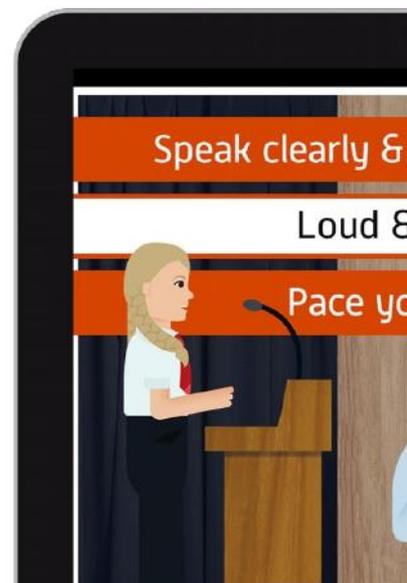
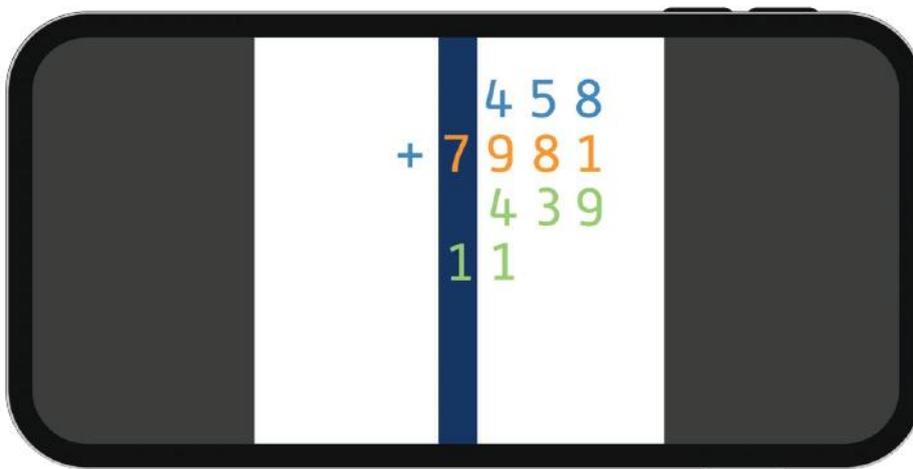
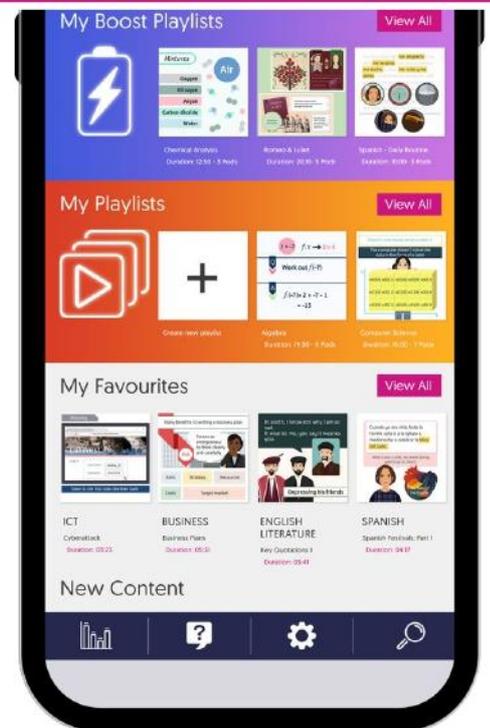


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Combined Science

AQA Combined Science: Trilogy

Getting Ready for KS4 (GCSE)

Getting Ready for KS4 (GCSE) Combined Science

Getting Ready for KS4 (GCSE)	GRF-01-001		
Importance of Diet	BIOL-2001		
The Periodic Table	CHEM-2008		
Representing Chemical Reactions	CHEM-2017		
Photosynthesis	BIOL-2087		  
Diffusion and Active Transport	BIOL-2105		  
Cell Differentiation	BIOL-2191		  
Menstruation	BIOL-2249		
Reproduction in plants	BIOL-2236		  
Aerobic Respiration	BIOL-2167		  
Anaerobic Respiration	BIOL-2168		  
Cell Structures and Microscopes	BIOL-2192		  
Speciation	BIOL-2229		  
Variation	BIOL-2050		  
Competition	BIOL-2011		  
The Digestive System	BIOL-2188		
Carbon Cycle	BIOL-2084		  
Products of Photosynthesis	BIOL-2089		  
Human reproduction	BIOL-2234		  
Fertilisation and germination	BIOL-2238		  
Solubility	CHEM-2126		
Gas Exchange in Humans	BIOL-2172		  
States of matter	CHEM-2150		
Separation Methods	CHEM-2089		
Chromatography	CHEM-2086		
Combining Elements	CHEM-2013		

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Diffusion	CHEM-2153		
Elements in the Periodic Table	CHEM-2007		
Atomic Structure	CHEM-2010		
Acid metal reactions	CHEM-2145		
Making Salts	CHEM-2104		
The Atmosphere: Past and Present	CHEM-2054		
Chemical Reactions	CHEM-2016		
Gas Exchange In Plants	BIOL-2110		
Acids and Bases	CHEM-2101		
Processes that Change the Atmosphere	CHEM-2057		
Speed	PHYS-2110		
Traditional Extraction Methods	CHEM-2025		
Displacement	CHEM-2031		
Distance/Time Graphs	PHYS-2105		
Climate Change	CHEM-2039		
Magnetic Fields	PHYS-2053		
Newton's Second Law	PHYS-2106		
Acceleration	PHYS-2104		
Lab measurements	CHEM-2155		
Hooke's Law	PHYS-2099		
Series & Parallel Circuits	PHYS-2025		
Gas Pressure	PHYS-2098		
Circuit symbols	PHYS-2030		
Resultant Forces	PHYS-2109		
Investigating the Factors Affecting the Rate of Photosynthesis	BIOL-40-003		
Investigating the Densities of Solids and Liquids	PHYS-28-002		
History of the Periodic Table	CHEM-2014		
Evidence for Human Evolution	BIOL-2021		
Discovery of the Structure of the Atom	CHEM-2009		
Investigation into Variation in Organisms	BIOL-40-017		
Scientific Method	SCI-MAT-001		
Elements and compounds	CHEM-2151		

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4.1/Cell biology

4.1.2/Cell division

Growth and Multicellular Organisms	BIOL-2194			
Stem Cell Technology	BIOL-2212			
Stem Cells (Part 2)	BIOL-2015			
The Cell Cycle	BIOL-2003			
Mitosis	BIOL-2004			
Stem Cells	BIOL-2014			

4.1.3/Transport in cells

Gas Exchange in Humans	BIOL-2172			
Diffusion and Active Transport	BIOL-2105			
Osmosis	BIOL-2092			
Surface-Area-To-Volume Ratio	BIOL-2109			

4.1.1/Cell structure

Cell Differentiation	BIOL-2191			
Unspecialised Plant Cells	BIOL-2113			
Cell Structures and Microscopes	BIOL-2192			

4.2/Organisation

4.2.2/Animal tissues, organs and organ systems

Importance of Diet	BIOL-2001			
Digestive Enzymes	BIOL-2176			
What is Blood?	BIOL-2180			
Lock-and-Key Hypothesis	BIOL-2175			
Enzymes	BIOL-2174			
The Circulatory System	BIOL-2184			
Heart Disease and Risk Factors	BIOL-2183			
Pacemaker	BIOL-2186			
Disease Transmission	BIOL-2044			
Infection	BIOL-2073			
Smoking	BIOL-2063			
Alcohol Abuse	BIOL-2064			

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Cancer	BIOL-2217			
The Circulatory System (Part 2)	BIOL-2185			

4.2.3/Plant tissues, organs and systems

Plant Organs	BIOL-2106			
Transpiration	BIOL-2091			
Plant Structures	BIOL-2111			
Plant Minerals	BIOL-2126			

4.3/Infection and response

4.3.1/Communicable diseases

Viruses	BIOL-2043			
Disease Prevention	BIOL-2045			
The Immune Response	BIOL-2069			
Sexually transmitted infections	BIOL-2250			
Body Defence	BIOL-2068			
Vaccines	BIOL-2072			
Immunisation	BIOL-2016			
Immunisation Programmes	BIOL-2017			
Antimicrobials and Antibiotics	BIOL-2070			
Resistance	BIOL-2071			
Developing New Drugs	BIOL-2066			
Drug Trials	BIOL-2038			

4.4/Bioenergetics

4.4.1/Photosynthesis

Photosynthesis	BIOL-2087			
Plant growth	BIOL-2252			
Products of Photosynthesis	BIOL-2089			
Limiting Factors	BIOL-2090			
Gas Exchange In Plants	BIOL-2110			

4.4.2/Respiration

Respiration	BIOL-2166			
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Aerobic Respiration	BIOL-2167			
Anaerobic Respiration	BIOL-2168			
Using Energy from Respiration	BIOL-2170			
Cell Metabolism	BIOL-2159			

4.5/Homeostasis and response

4.5.1/Homeostasis

Homeostasis	BIOL-2006		
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4.5.3/Hormonal coordination in humans

Type 1 Diabetes	BIOL-2008			
Type 2 Diabetes	BIOL-2009			
Hormones	BIOL-2139			
Controlling Fertility	BIOL-2141			
Human reproduction	BIOL-2234			

4.5.2/The human nervous system

The Central Nervous System	BIOL-2148			
Synapses	BIOL-2151			
Receptors and Effectors	BIOL-2157			
The Reflex Arc	BIOL-2149			
Reflexes	BIOL-2154			

4.6/Inheritance, variation and evolution

4.6.3/The development of understanding of genetics and evolution

Darwin's Theory of Evolution (Part 2)	BIOL-2048		
Evidence for Human Evolution	BIOL-2021		
The Fossil Record	BIOL-2051		
Extinction	BIOL-2012		
Bacteria	BIOL-2041		
Darwin's Theory of Evolution	BIOL-2047		
Natural Selection	BIOL-2049		

4.6.1/Reproduction

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Genes	BIOL-2052			
Reproduction in plants	BIOL-2236			
Sperm and egg	BIOL-2235			
Pollination	BIOL-2237			
Meiosis	BIOL-2005			
Alleles	BIOL-2053			
Sex Inheritance	BIOL-2055			
Genetic Disorders	BIOL-2031			
Genetic Testing	BIOL-2036			
Fetal Screening	BIOL-2147			
Monohybrid Inheritance	BIOL-2057			
Fertilisation and germination	BIOL-2238			

4.6.2/Variation and evolution

Genetic Engineering	BIOL-2027			
Selective breeding	BIOL-2242			
Arguments For and Against GM	BIOL-2028			
Cloning (Animals)	BIOL-2030			
Speciation	BIOL-2229			
Variation	BIOL-2050			

4.6.4/Classification of living organisms

The Five Kingdoms	BIOL-2135			
Why do we Classify? And what is a Species?	BIOL-2137			

4.7/Ecology

4.7.1/Adaptations, interdependence and competition

Maintaining Ecosystems and Preventing Ecosystem Loss	BIOL-2115			
Extreme Conditions	BIOL-2103			
Adaptations	BIOL-2046			
Competition	BIOL-2011			

4.7.3/Biodiversity and the effect of human interaction on ecosystems

Global Population Change	BIOL-2013			
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What Is Biodiversity?	BIOL-2075			
Waste from Human Activities	BIOL-2118			
Deforestation & Peat Removal	BIOL-2119			
Global Pollution	BIOL-2123			
The greenhouse effect	BIOL-2243			

4.7.2/Organisation of an ecosystem

Carbon Cycle	BIOL-2084			
Food chains and webs	BIOL-2251			
The water cycle	BIOL-2233			
How to do Fieldwork	BIOL-2107			

5.1/Atomic structure and the periodic table

5.1.2/The periodic table

The Periodic Table	CHEM-2008		
History of the Periodic Table	CHEM-2014		
Group 1: Alkali Metals	CHEM-2001		
Reactivity in Group 1	CHEM-2002		
Group 7: The Halogens	CHEM-2004		
Reactivity in Group 7	CHEM-2005		
The Noble Gases	CHEM-2006		

5.1.1/A simple model of the atom, symbols, relative atomic mass, electronic charge and isotopes

Atomic Structure	CHEM-2010			
Representing Chemical Reactions	CHEM-2017			
Elements and compounds	CHEM-2151			
Combining Elements	CHEM-2013			
Electronic Structure	CHEM-2012			
Separation Methods	CHEM-2089			
Isotopes and Relative Atomic Mass	CHEM-2070			
Discovery of the Structure of the Atom	CHEM-2009			
Subatomic Particles	CHEM-2011			
Elements in the Periodic Table	CHEM-2007			

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5.2/Bonding, structure, and the properties of matter

5.2.1/Chemical bonds, ionic, covalent and metallic

Ionic bonding	CHEM-2060			
Ionic Compounds	CHEM-2062			
Formula of Ionic Compounds	CHEM-2061			
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Metallic Bonding	CHEM-2064			
Simple & Giant Covalent Substances	CHEM-2065			

5.2.3/Structure and bonding of carbon

Allotropes of Carbon	CHEM-2066		
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5.2.2/How bonding and structure are related to the properties of substances

States of matter	CHEM-2150			
Properties of metals	CHEM-2158			

5.3/Quantitative chemistry

5.3.1/Chemical measurements, conservation of mass and the quantitative interpretation of chemical equations

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Relative Formula Mass and Percentage By Mass	CHEM-2071		

5.3.2/Use of amount of substance in relation to masses of pure substances

Reacting Masses	CHEM-2139			
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Concentration and Solutions	CHEM-2074			
Chemical Reactions	CHEM-2016			

5.4/Chemical changes

5.4.2/Reactions of acids

Acids and Bases	CHEM-2101			
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Neutralisation	CHEM-2103			
Making Salts	CHEM-2104			
Salt	CHEM-2018			
Alkalis	CHEM-2102			
Strong & Weak Acids	CHEM-2124			
Acid metal reactions	CHEM-2145			

5.4.3/Electrolysis

Electrolysis	CHEM-2095			
Events at the Electrodes	CHEM-2096			
Uses Of Electrolysis	CHEM-2100			

5.4.1/Reactivity of metals

Metals & Ores	CHEM-2024			
Oxides	CHEM-2148			
Traditional Extraction Methods	CHEM-2025			
Displacement	CHEM-2031			
Redox	CHEM-2128			

5.5/Energy changes

5.5.1/Exothermic and endothermic reactions

Exothermic & Endothermic Reactions	CHEM-2081			
Measuring Energy Changes	CHEM-2083			
Bond breaking & bond making	CHEM-2082			
Calculations Using Bond Energies	CHEM-2137			

5.6/The rate and extent of chemical change

5.6.1/Rate of reaction

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Interpreting Rate Graphs	CHEM-2136			
Effect of Temperature & Surface Area	CHEM-2079			
Measuring Reaction Rates	CHEM-2138			
Rates Of Reaction & Collision Theory	CHEM-2077			
Catalysts	CHEM-2080			

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5.6.2/Reversible reactions and dynamic equilibrium

Reversible Reactions & Equilibria

CHEM-2084   

Choosing the Reaction Conditions

CHEM-2106   

5.7/Organic chemistry

5.7.1/Carbon compounds as fuels and feedstock

Crude Oil

CHEM-2032   

Alkanes

CHEM-2033   

Fuels

CHEM-2034   

Complete and Incomplete Combustion

CHEM-2035   

5.8/Chemical analysis

5.8.1/Purity, formulations and chromatography

Chromatography

CHEM-2086  

5.9/Chemistry of the atmosphere

5.9.3/Common atmospheric pollutants and their sources

Pollution

CHEM-2037  

Environmental Impact of Burning Hydrocarbons

CHEM-2036  

5.9.2/Carbon dioxide and methane as greenhouse gases

Processes that Change the Atmosphere

CHEM-2057   

Climate Change

CHEM-2039   

5.9.1/The composition and evolution of the Earth's atmosphere

The Atmosphere: Past and Present

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5.10/Using resources

5.10.1/Using the Earth's resources and obtaining potable water

Testing for water

CHEM-2146  

Purifying Water

CHEM-2120  

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New Ways of Extracting Copper

CHEM-2026   

5.10.2/Life cycle assessment and recycling

Reducing Pollution

CHEM-2038 

Recycling metals

CHEM-2160  

6.1/Energy

6.1.2/Conservation and dissipation of energy

Energy Stores and Transfers

PHYS-29-001   

Efficiency

PHYS-29-002   

Insulation

PHYS-2091   

6.1.1/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   

6.2/Electricity

6.2.4/Energy transfers

Power of an Electrical Device

PHYS-2064   

Energy Transfers in the Home

PHYS-2074   

Power in the National Grid

PHYS-2063   

Transformers in the National Grid

PHYS-2056   

6.2.1/Current, potential difference and resistance

Circuit symbols

PHYS-2030   

Voltage

PHYS-2027   

Ohm's Law

PHYS-2023   

I & V Graphs

PHYS-2026   

Resistors

PHYS-2035   

Factors Affecting Resistance

PHYS-2022   

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Thermistors	PHYS-2036			
Light-Dependent Resistors	PHYS-2031			
LEDs & Diodes	PHYS-2032			
Bulbs	PHYS-2028			

6.2.2/Series and parallel circuits

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

6.2.3/Domestic uses and safety

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

6.3/Particle model of matter

6.3.2/Internal energy and energy transfers

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

6.3.3/Particle model and pressure

Kinetic Theory	PHYS-2092	
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6.3.1/Changes of state and the particle model

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

6.4/Atomic structure

6.4.2/Atoms and nuclear radiation

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Ionising & Detecting Radiation	PHYS-2149			
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Half-life	PHYS-2148			
Radioactive Decay, Transmutation & Randomness	PHYS-2150			
Dangers of Radioactivity	PHYS-2146			

6.4.1/Atoms and isotopes

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

6.5/Forces

6.5.3/Forces and elasticity

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

6.5.4/Forces and motion

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

6.5.1/Forces and their interactions

Vectors & Scalars	PHYS-2112			
Resultant Forces	PHYS-2109			

6.5.5/Momentum

Momentum	PHYS-2117		
Momentum & Collisions	PHYS-2119		

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6.5.2/Work done and energy transfer

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

6.6/Waves

6.6.2/Electromagnetic waves

Wireless Signals	PHYS-2167			
Frequency of a Wave	PHYS-2202			
Wavelength of a Wave	PHYS-2207			
The Effect Of Wavelength	PHYS-2171			
Radio Waves	PHYS-2172			
Microwaves	PHYS-2170			
Infrared	PHYS-2169			
Visible Light	PHYS-2175			
Ultraviolet Light	PHYS-2174			
X-rays	PHYS-2176			
Gamma Radiation	PHYS-2168			
Refraction	PHYS-2181			

6.6.1/Waves in air, fluids and solids

Types of Wave	PHYS-2185			
Wavelength and the Wave Formula	PHYS-2173			

6.7/Magnetism and electromagnetism

6.7.2/The motor effect

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

6.7.1/Permanent and induced magnetism, magnetic forces and fields

Magnetic Fields	PHYS-2053			
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Biology Practicals

Biology Practicals

Investigate the Effect of a Range of Concentrations of Salt or Sugar Solutions on the Mass of Plant Tissue	BIOL-40-007		
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Investigate the Relationship Between Organisms and Their Environment using Field-Work Techniques	BIOL-40-004		
Investigating the Factors Affecting the Rate of Photosynthesis (Higher)	BIOL-40-019		
Rates of Enzyme-Controlled Reactions	BIOL-40-002		
Using a Light Microscope to Observe, Draw and Label	BIOL-40-001		
Using Qualitative Reagents to Test for a Range of Carbohydrates, Lipids and Proteins	BIOL-40-005		
Investigate the Effect of a Factor on Human Reaction Time	BIOL-40-008		
Investigating the Factors Affecting the Rate of Photosynthesis	BIOL-40-003		

Chemistry Practicals

Chemistry Practicals

Investigate How Paper Chromatography Can Be Used to Separate and Tell the Difference Between Coloured Substances	CHEM-20-007		
Investigate the Variables that Affect Temperature Changes in Reacting Solutions	CHEM-20-012		
Investigate What Happens When Aqueous Solutions Are Electrolysed Using Inert Electrodes	CHEM-20-003		
Investigation Into Factors Affecting the Rates of Reactions	CHEM-20-002		
Preparation of a Pure, Dry Sample of Salt from an Insoluble Oxide or Carbonate	CHEM-20-001		
Separation of Liquids by Distillation	CHEM-20-008		

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		

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Investigate How the Amount of Infrared
Radiation Emitted or Absorbed by a Surface
Depends on the Nature of that Surface
Investigate the Relationship Between Force
and Extension for a Spring
Investigating Resistance

PHYS-28-010  

PHYS-28-018  

PHYS-28-020  

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