AQA GCSE Combined Science Trilogy: Foundation

Advance Information of Assessed Content 2022

Link to specification: https://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF

Link to advance information document: https://filestore.aqa.org.uk/content/summer-2022/AQA-8464-AI-22.PDF

Link to revised Physics equation sheet: https://filestore.aqa.org.uk/resources/science/AQA-8464-8465-ES-INS.PDF

AQA GCSE Combined Science: Foundation Tier
Paper 1
(biology, chemistry, physics)

Biology Paper 1 - F

These specification points will be the **major focus** of this paper.

Exam date: 17th May

All other specification points from B1, other those on these pages that are not explicitly omitted, **may still be assessed** in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision

Spec point	Concepts	Bitesize	YouTube
4.1.2 Cell Division	• How DNA is arranged as chromosomes • Series of stages in the cell cycles inc. mitosis • Definition and uses of stem cells	https://www.bbc.co.uk/bitesize/guides/z2kmk2p/revision/2 https://www.bbc.co.uk/bitesize/guides/z2kmk2p/revision/3	https://www.youtube.com/watch?v=RHyZVmbiA78 https://www.youtube.com/watch?v=Kh27eyjxvYM&t=24s
Required practical 1: use of light microscope	• How to prepare slides • How to use the microscope to improve field of view, clarify, change magnification • Microscopy calculations ***Linked learning**: identifying prokaryotic and eukaryotic cell structures from microscope images; identifying specialised cells from microscope images; diffusion of substances in and out of cells*	https://www.bbc.co.uk/bitesize/guides/zpqpqhv/revision/1 Eukaryotes and prokaryotes - Cell structure - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize Diffusion - Transport in cells - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize	https://www.youtube.com/watch?v=jBVxo5T-ZQM&t=8s GCSE Science Revision Biology "Eukaryotes and Prokaryotes" – YouTube GCSE Science Revision Biology "Diffusion" - YouTube
4.2.2 Animal tissues, organs and organ systems	• Functions of tissues and organs in the digestive system • Digestive enzymes • Functions of tissues and organs in the circulatory system • Pathway of blood through the heart • adaptations of components of the blood • Risk factors of non-communicable diseases	https://www.bbc.co.uk/bitesize/guides/z89mk2p/revision/1 https://www.bbc.co.uk/bitesize/guides/zsncsrd/revision/1	https://www.youtube.com/watch?v=4ui4oSHHnzA https://www.youtube.com/watch?v=VLK2wANjQm0 https://www.youtube.com/watch?v=bpYaKM2hVFY
Required practical 3: test for carbohydrates, lipids and proteins	• Reagent and positive result for carbohydrates, proteins and lipids	https://www.bbc.co.uk/bitesize/guides/z89mk2p/revision/3	https://www.youtube.com/watch?v=SqWTJWOBww4

Biology Paper 1 - F

These specification points will be the **major focus** of this paper.

Exam date: 17th May

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Spec point	Concepts	Bitesize	YouTube
4.3.1 Communicable Diseases	• Definition and examples of pathogen • Describe how viruses and bacteria make us ill; state examples of diseases caused by each type of pathogen • Human defence mechanisms including re3sponse to vaccines • Comparing antibody production after active and passive immunity • Describe the role of antibiotics • Describe the stages in the development of drugs	https://www.bbc.co.uk/bitesize/topics/z9kww6f	https://www.youtube.com/watch?v=dbd5iydu3EY https://www.youtube.com/watch?v=5X9MklLVhlw https://www.youtube.com/watch?v=HSrrPdJDqxM https://www.youtube.com/watch?v=uPeZBhJYlnU https://www.youtube.com/watch?v=w3ykU52K-Hw
4.4.1 Photosynthesis	• Photosynthesis equation • Factors affecting rate of photosynthesis	https://www.bbc.co.uk/bitesize/guides/zs4mk2p/revision/1	https://www.youtube.com/watch?v=rAJGnS_ktk4
Required Practical 5: effect of light intensity on rate of photosynthesis	• Identify independent, dependent, control variables • Describe how to measure the dependent variable • Describe a method • Analysing results	https://www.bbc.co.uk/bitesize/guides/zs4mk2p/revision/5	https://www.youtube.com/watch?v=cBCKedXdFeE

These specification points will **not be assessed** on this paper.

Spec point NOT assessed
4.1.3.2 Osmosis
4.1.3.3 Active Transport
4.2.2.4 Coronary Heart Diseases
4.4.1.3 Uses of Glucose from Photosynthesis
4.4.2 Respiration

Chemistry Paper 1 - F

These specification points will be the **major focus** of this paper.

Exam date: 27th May

All other specification points from C1, **may still be assessed** in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision

Spec point	Concepts	Bitesize	YouTube
5.1.2 The Periodic Table	• The Periodic Table is arranged in order of proton number • What atoms of elements in the same group have in common • What atoms of elements in the same period have in common • Development in the Periodic Table • -Ions formed from metals and non-metals • Trends in physical and chemical properties of group 1,7 and 0 elements • Reactions of group 1 and 7 elements	https://www.bbc.co.uk/bitesize/guides/zwt2k2p/revision/1 https://www.bbc.co.uk/bitesize/guides/ztrxdxs/revision/1	https://www.youtube.com/watch?v=IdS9roW7IzM&t=119s https://www.youtube.com/watch?v=uwzXfZoCP_k https://www.youtube.com/watch?v=dZGDUKQa_6g https://www.youtube.com/watch?v=HT1zAPQIBAQ
5.2.2 How bonding and structure are related to the properties of a substance	• Interpreting melting and boiling point data to determine state at a certain temp • State symbols • Describe and explain properties of ionic compounds • -describe and explain properties of simple covalent molecules • -describe and explain properties of polymers • -describe and explain properties of metals and alloys	https://www.bbc.co.uk/bitesize/topics/z33rrwx	https://www.youtube.com/watch?v=leVxy7cjZMU https://www.youtube.com/watch?v=DECGNyC-x_s https://www.youtube.com/watch?v=EP0zfm_FVqc https://www.youtube.com/watch?v=A-wTpLPICd0
5.2.3 Structure and bonding of carbon	• Describe and explain the properties of diamond, graphite, graphene and fullerenes	https://www.bbc.co.uk/bitesize/guides/zgq8b82/revision/2	https://www.youtube.com/watch?v=tGH0mXCcEFU
5.4.1 The Reactivity of Metals	-Metals + oxygen -Reduction and oxidation in terms of oxygen -The Reactivity Series - Displacement reactions - Extraction of metals by reduction	https://www.bbc.co.uk/bitesize/guides/zy7dgdm/revision/1	https://www.youtube.com/watch?v=Lk1V0buHEFs https://www.youtube.com/watch?v=2i5Lm7BMtpo https://www.youtube.com/watch?v=MXTSels6e2Y

Chemistry Paper 1 - F

These specification points will be the **major focus** of this paper.

Exam date: 27th May

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Spec point	Concepts	Bitesize	YouTube

5.4.2 Reactions of Acids	• Naming Salts
	• Products of the reactions between:
	  ○ acids and metals
	  ○ acids and alkalis and insoluble bases
	  ○ acids and metal carbonates
	• pH scale and neutralisation
		https://www.bbc.co.uk/bitesize/guides/ztv2dxs/revision/1	https://www.youtube.com/watch?v=ofw6oHSYGFI
			
			https://www.youtube.com/watch?v=QlSsle_jSQ8

5.4.2.3 and **Required Practical 8:** preparation of a pure, dry sample of soluble salts	• Describe a method of producing solid salt crystals from reaction between insoluble oxide or carbonate and acids • Identifying errors in methods and reagents	https://www.bbc.co.uk/bitesize/guides/ztv2dxs/revision/5	https://www.youtube.com/watch?v=9GH95172Js8&t=16s
5.4.3 Electrolysis	• The process of electrolysis • Electrolysis of molten ionic compounds • Electrolysis of aluminium oxide • Electrolysis of aqueous solutions	https://www.bbc.co.uk/bitesize/guides/z9h9v9q/revision/1	https://www.youtube.com/watch?v=AhTRiL6xjBA&t=2s https://www.youtube.com/watch?v=ilNOpROacf0 https://www.youtube.com/watch?v=YcyMElBEzAY https://www.youtube.com/watch?v=6WjC_Vi4roA
Required Practical 9: : investigate what happens when aqueous solutions are electrolysed using inert electrodes.	• Developing a hypothesis • Planning an investigation	https://www.bbc.co.uk/bitesize/guides/z9h9v9q/revision/3	https://www.youtube.com/watch?v=ukbtTTG1Kew
Required Practical 10: investigate the variables that affect temperature changes in reacting solutions such as, e.g. acid plus metals, carbonates, neutralisations, displacement of metals	• Identifying independent, dependent, control variables • Analysing results • Identifying exo and endothermic reactions from experimental results	https://www.bbc.co.uk/bitesize/guides/z2b2k2p/revision/2	https://www.youtube.com/watch?v=Bz0C9mmF2tw

Physics Paper 1 - F

These specification points will be the **major focus** of this paper.

Exam date: 9th June

All other specification points from P1, **may still be assessed** in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision

Spec point	Concepts	Bitesize	YouTube
6.1.1 Energy Changes in a system, and the ways energy us stored before and after such changes	• identifying the energy changes in systems • Calculate, using equations, the amount of energy associated with a moving object, a stretched spring and an object raised above ground level. • Calculate, using an equation, the amount of energy stored in or released from a system as its temperature changes • Calculate Power	https://www.bbc.co.uk/bitesize/guides/zskp7p3/revision/1 https://www.bbc.co.uk/bitesize/guides/z8pk3k7/revision/1 https://www.bbc.co.uk/bitesize/guides/zy8g3k7/revision/1	https://www.youtube.com/watch?v=JGwcDCeYRYo https://www.youtube.com/watch?v=-zy9eWzmGe4 https://www.youtube.com/watch?v=Qw_9kX9PARc https://www.youtube.com/watch?v=63OTIdNb-TE https://www.youtube.com/watch?v=EDT0DPhaaMY
Required Practical 14: an investigation to determine the specific heat capacity of one or more materials.	• linking the decrease of one energy store (or work done) to the increase in temperature and subsequent increase in thermal energy stored ***Linked learning**: efficiency and energy transfers in a system*	https://www.bbc.co.uk/bitesize/guides/zy8g3k7/revision/4 Efficiency - Work, power and efficiency - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize	https://www.youtube.com/watch?v=Hs5x0-IU2F4 https://www.youtube.com/watch?v=loeRLKNeUsc
6.1.3 National and global energy resources	• -describe renewable and non-renewable energy resource • -compare advantages and disadvantages of different energy resources	https://www.bbc.co.uk/bitesize/guides/z2wfxfr/revision/1	https://www.youtube.com/watch?v=1dJKvxhGEgA https://www.youtube.com/watch?v=pqzvUur7QRw

Physics Paper 1 - F

These specification points will be the **major focus** of this paper.

Exam date: 9th June

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Spec point	Concepts	Bitesize	YouTube
6.2.1 Current, potential difference and resistance	• Circuit diagram symbols • Definition and units of electrical current and charge • Calculating charge flow using an equations • Definition and units of potential difference • Definition and units of resistance • Relationship between current, potential difference and resistance • Calculate current, potential difference or resistance using an equation • IV graphs of resistor at constant temp, filament lamp, diode • Applications of LDRs and thermistors	https://www.bbc.co.uk/bitesize/guides/zgvq4qt/revision/1	https://www.youtube.com/watch?v=sFUmuuJjAcw https://www.youtube.com/watch?v=ts7WumFAaSg https://www.youtube.com/watch?v=hRojfU77c38
Required Practical 16: construct appropriate circuits to investigate the I–V characteristics of circuit elements, inc. a filament lamp, diode and a resistor at constant temp.	• Placing ammeter and voltmeter in the correct place in a circuit to measure the current through and potential difference across a component • Plotting graphs • Describing and explaining patterns shown in graphed data	https://www.bbc.co.uk/bitesize/guides/zgvq4qt/revision/5	https://www.youtube.com/watch?v=A1SyKvdHoqY&t=29s

Physics Paper 1 - F

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Exam date: 9th June

All other specification points from P1, **may still be assessed** in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision

Spec point	Concepts	Bitesize	YouTube
6.3.1 Changes of state and the particle model	• Define and calculate the density of a substance or object • Recognise/draw simple diagrams to model the difference between solids, liquids and gases • Explain the differences in density between the different states of matter in terms of the arrangement of atoms or molecules. • Describe how, when substances change state mass is conserved. • Describe changes of state as physical changes	https://www.bbc.co.uk/bitesize/guides/zqjy6yc/revision/1 https://www.bbc.co.uk/bitesize/guides/zwwfxfr/revision/1	https://www.youtube.com/watch?v=hkBrw2fG75U https://www.youtube.com/watch?v=-EZmXVOSa20
6.4.2 Atoms and nuclear radiation	• Radioactive decay, types of nuclear radiation and their properties • Definition and units of activity and count rate • Nuclear equations • Half lives • Contamination and irradiation	https://www.bbc.co.uk/bitesize/guides/zxbnh39/revision/1 https://www.bbc.co.uk/bitesize/guides/zp4vfcw/revision/1	https://www.youtube.com/watch?v=F_Y1-JieCrg https://www.youtube.com/watch?v=nW0S1C6wVrg https://www.youtube.com/watch?v=wj9BzGFao8k https://www.youtube.com/watch?v=teGu0VAPlOo

These specification points will **not be assessed** on this paper.

Spec point NOT assessed
6.2.3 Domestic uses and safety
6.3.3 Particle Model and Pressure
6.4.1 Atoms and Isotopes

AQA GCSE Combined Science: Foundation Tier
Paper 2
(biology, chemistry, physics)

Biology Paper 2 - F

These specification points will be the **major focus** of this paper.

Exam date: 15th June

All other specification points from B2, other those on these pages that are not explicitly omitted, **may still be assessed** in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision

Spec point	Concepts	Bitesize	YouTube
4.5.3 Hormonal Control in Humans	• Definition of 'hormone' • function of the tissues and organs of the endocrine system • Identifying position of glands, and the hormones secreted from them • Hormones involved in control of blood glucose concentration • Type 1 and Type 2 diabetes	https://www.bbc.co.uk/bitesize/guides/zq4mk2p/revision/1 (1 to 5)	https://www.youtube.com/watch?v=c6olhi88KZs https://www.youtube.com/watch?v=77oyUdNZ054
4.6.1 Reproduction	• Describe the structure of DNA, chromosomes • -definition of 'genome' and 'gene' • Definition of key inheritance terms e.g. heterozygous, recessive allele, phenotype • Construct punnett squares and determine probability • Describe inherited disorders • Make informed judgements about the economic, social and ethical issues concerning embryo screening,	https://www.bbc.co.uk/bitesize/guides/zycmk2p/revision/3 https://www.bbc.co.uk/bitesize/guides/zcdfmsg/revision/1	https://www.youtube.com/watch?v=wv1TQXBQ6wQ https://www.youtube.com/watch?v=zNEtVaNQ0s8 https://www.youtube.com/watch?v=mvWy5lbUoHA https://www.youtube.com/watch?v=sYPwWHszLDo
4.7.1 Adaptations, interdependence and competition	• -Describe the different levels of organisation in an ecosystem • -Describe the importance of interdependence and competition in a community. • -Identify biotic and abiotic factors • -Suggest the factors for which organisms are competing in a given habitat	https://www.bbc.co.uk/bitesize/guides/z86gpbk/revision/1 (1 to 7)	https://www.youtube.com/watch?v=XVD5izWXmKo https://www.youtube.com/watch?v=0mjafH5pVLA
4.7.2 Organisation of an ecosystem	• Interpret food chains and webs • Identify producers, consumers, predators and prey from food chains and webs • Describe the carbon and water cycles	https://www.bbc.co.uk/bitesize/guides/zqskv9q/revision/1	https://www.youtube.com/watch?v=dRFQ8rZCK6Q https://www.youtube.com/watch?v=urzpnjwazV0

Biology Paper 2 - F

These specification points will be the **major focus** of this paper.

Exam date: 15th June

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Spec point	Concepts	Bitesize	YouTube
Required Practical 7: measure the population size of a common species in a habitat. Use sampling techniques to investigate the effect of a factor on the distribution of this species	• Using transects and quadrats are used by ecologists to determine the distribution and abundance of species in an ecosystem. • Understand the terms mean, mode and median • Calculate arithmetic means	https://www.bbc.co.uk/bitesize/guides/zqskv9q/revision/3	https://www.youtube.com/watch?v=2MW6nwf80XM https://www.youtube.com/watch?v=RhMOCxXcDrQ https://www.youtube.com/watch?v=yLHz2Ea10Mg&t=2s

These specification points will **not be assessed** on this paper.

Spec point NOT assessed	
4.5.2 The human nervous system	**4.6.3.3** Extinction
4.5.3.3 Hormones in human reproduction	**4.6.3.4** Resistant Bacteria
4.5.3.4 Contraception	**4.7.1.4** Adaptations
4.6.1.1 Sexual and asexual reproduction	**4.7.3.1** Biodiversity
4.6.1.2 Meiosis	**4.7.3.3** Land Use
4.6.1.6 Sex Determination	**4.7.3.4** Deforestation
4.6.2.1 Variation	**4.7.3.5** Global Warming
4.6.2.2 Evolution	**4.7.3.6** Maintaining Biodiversity
4.6.2.3 Selective Breeding	

Chemistry Paper 2 - F

These specification points will be the **major focus** of this paper.

Exam date: 20th June

All other specification points from C2, **may still be assessed** in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision

Spec point	Concepts	Bitesize	YouTube
5.6.1 Rate of Reaction	• Calculating the rate of a reaction • Describe collision theory • Define activation energy • Describe and explain the factors that increase the rate of reaction • Describe and explain the effect of catalysts on rate of reaction	https://www.bbc.co.uk/bitesize/guides/zpkp7p3/revision/1	https://www.youtube.com/watch?v=UkrBJ6-uGFA https://www.youtube.com/watch?v=GCR5xeduq2o https://www.youtube.com/watch?v=-4HXaUBbv04 https://www.youtube.com/watch?v=hel8fQjxcO8
Required Practical 11: investigate how concentration affects the rates of reaction by a method involving measuring the volume of a gas produced/change in colour	• Identify independent, dependent and control variables • Describe how to measure the dependent variable • Analyse results and draw conclusions from graphed data • Calculate rate of reaction from data	https://www.bbc.co.uk/bitesize/guides/zpkp7p3/revision/6	https://www.youtube.com/watch?v=N5p06i9ilmo https://www.youtube.com/watch?v=Gl6LVl7oAlU
5.6.2 Reversible reactions and dynamic equilibrium	• Identify and give examples of reversible reactions • Apply the conservation of energy to reversible reactions • Define dynamic equilibrium	https://www.bbc.co.uk/bitesize/guides/z32bpbk/revision/1 Only page 1	https://www.youtube.com/watch?v=66qcNNJFy6E
5.7.1 Carbon compounds as fuels and feedstock	• Describe crude oil as a mixture of different length hydrocarbons; define the term hydrocarbon • Identify the first 4 alkanes from their chemical formula and name them • Describe the trend in properties as hydrocarbon chain length increases • Describe and explain fractional distillation • Describe the process of cracking • Describe the use of alkenes	https://www.bbc.co.uk/bitesize/guides/zxd4y4j/revision/1	https://www.youtube.com/watch?v=CX2IYWggEBc https://www.youtube.com/watch?v=3I7yCkSXPos https://www.youtube.com/watch?v=7AWwjKbRa_o

Chemistry Paper 2 - F

These specification points will be the **major focus** of this paper.

Exam date: 20th June

All other specification points from C2, **may still be assessed** in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision

Spec point	Concepts	Bitesize	YouTube
5.8.1 Purity, formulations and chromatography	• Define the term pure substance in chemistry • Use melting and boiling point data to identify pure and impure substances • Define the term formulation and give examples	https://www.bbc.co.uk/bitesize/guides/zp2wrwx/revision/1	https://www.youtube.com/watch?v=3oJxWwcnfJY
Required Practical 12: investigate how paper chromatography can be used to separate and tell the difference between coloured substances.	• Describe the properties of the mixtures that chromatography can be used to separate • Describe and explain the experimental process of chromatography • Explain how substances are separated using chromatography • Interpret chromatograms and calculate Rf values	https://www.bbc.co.uk/bitesize/guides/zp2wrwx/revision/3	https://www.youtube.com/watch?v=TdJ57SQ6GAQ https://www.youtube.com/watch?v=pnTGNAfu6GE
5.9.1 The composition and evolution of the Earth's Atmosphere	• Describe the composition of the current atmosphere • Describe the composition of the early atmosphere and explain theories of how the early atmosphere formed • Explain how the early atmosphere changed to that of the present atmosphere	https://www.bbc.co.uk/bitesize/guides/z9pk3k7/revision/1	https://www.youtube.com/watch?v=t1Z3GlNldLA https://www.youtube.com/watch?v=l0h_-3M0Pso
5.9.3 Common atmospheric pollutants and their sources	• State the atmospheric pollutants released into the atmosphere from the complete and incomplete combustion of fossil fuels • Describe the negative impacts of these pollutants on health and the environment	https://www.bbc.co.uk/bitesize/guides/zq3797h/revision/1	https://www.youtube.com/watch?v=yLp6LOgPHmI
5.10.1 Using the Earth's resources and obtaining potable water	• Describe the renewable and non-renewable resources that we get form the Earth and its atmosphere • Define the term potable water • Describe how potable water can be produced. • Describe the differences in the treatment of waste water, salt water and ground water	https://www.bbc.co.uk/bitesize/guides/zswfxfr/revision/1 https://www.bbc.co.uk/bitesize/guides/zg6cfcw/revision/1	https://www.youtube.com/watch?v=-XczTGavTZU https://www.youtube.com/watch?v=n7pYRQs20bI

These specification points will **not be assessed** on this paper.

Spec point NOT assessed
5.9.2 Carbon dioxide and methane as greenhouse gases

Physics Paper 1 - F

These specification points will be the **major focus** of this paper.

Exam date: 23rd June

All other specification points from P2, **may still be assessed** in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision

Spec point	Concepts	Bitesize	YouTube
6.5.1 Forces and their interactions	• Describe the difference between scalar and vector quantities and give examples • Give examples of contact and non-contact forces • Describe the relationship between mass, weight and gravitational field strength • Use an equation to calculate weight • Calculate the resultant force acting on an object • Draw free body diagrams to describe qualitatively examples where several forces lead to a resultant force on an object, including balanced forces when the resultant force is zero	https://www.bbc.co.uk/bitesize/guides/zskn2nb/revision/1 https://www.bbc.co.uk/bitesize/guides/zcxcfcw/revision/1 https://www.bbc.co.uk/bitesize/guides/z232k2p/revision/1	https://www.youtube.com/watch?v=P1ISWWUkMdQ https://www.youtube.com/watch?v=xxK8N23nx9M https://www.youtube.com/watch?v=W2aBVbcHr_k https://www.youtube.com/watch?v=PL8ATKipoB4
6.5.4.1: Describing motion along a line	• Describe the difference between distance and displacement • Use an equation to calculate speed • describe the difference between speed and velocity • Interpret distance-time graphs and velocity-time graphs • Use an equation to calculate acceleration • Describe how an object reaches terminal velocity	https://www.bbc.co.uk/bitesize/guides/z2wy6yc/revision/1	https://www.youtube.com/watch?v=QaU9jMHh7gE https://www.youtube.com/watch?v=M_0FRIX8wIM https://www.youtube.com/watch?v=DkCw2C-DkT0 https://www.youtube.com/watch?v=b0VKlpetP9A https://www.youtube.com/watch?v=Kzx8GBTl5VM
6.5.4.2 Force, accelerations and Newton's Laws of motion	-Describe Newton's first law of motion -Describe Newton's second law of motion and use an equation to calculate the force required to make an object with a certain mass accelerate at a certain speed -Describe Newton's third law of motion	https://www.bbc.co.uk/bitesize/guides/zgv797h/revision/1	https://www.youtube.com/watch?v=i5PtaCJJFjw https://www.youtube.com/watch?v=DpQ_ikFKru0

Physics Paper 1 - F

These specification points will be the **major focus** of this paper.

Exam date: 23rd June

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Spec point	Concepts	Bitesize	YouTube
6.5.4.3: Forces and braking	• Describe the stopping distance of a car • Define thinking distance • Describe factors that affect a driver's reaction time • Evaluate measurements from methods to measure the different reaction times • Define braking distance • Describe factors that affect a car's braking distance • Explain the dangers caused by large decelerations	https://www.bbc.co.uk/bitesize/guides/zgv797h/revision/7	https://www.youtube.com/watch?v=drMKdcMq3o0
6.6.2 Electro-magnetic Waves	• Describe the order of the electromagnetic spectrum • Describe the properties of the different parts of the EM spectrum • Describe the uses of the different parts of the EM spectrum • Describe the hazards associated with the different parts of the EM spectrum • Describe how changes in atoms and the nuclei of atoms can result in EM waves being generated	https://www.bbc.co.uk/bitesize/guides/z3yq4qt/revision/3	https://www.youtube.com/watch?v=u5vkYjV1V1A&t=3s https://www.youtube.com/watch?v=L0iivb-acqU&list=RDLVu5vkYjV1V1A&index=2
Required Practical 21 investigate how the amount of infrared radiation absorbed or radiated by a surface depends on the nature of that surface.	• Identify dependent, independent and variables • Plan a method to ensure valid results are collected • Draw conclusions from data	https://www.bbc.co.uk/bitesize/guides/ztpm7p3/revision/1	https://www.youtube.com/watch?v=LFwio38EK9s

Physics Paper 2 - F

These specification points will be the **major focus** of this paper.

Exam date: 23rd June

All other specification points from P2, other those on the next slide that are not explicitly omitted, **may still be assessed** in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision

Spec point	Concepts	Bitesize	YouTube
6.7.1: Permanent and induced magnetism, magnetic forces and fields	• Describe the difference between a permanent and an induced magnet • Describe the attraction and repulsion between unlike and like poles for permanent magnets . • Define the 'magnetic field'. • Describe the properties of the magnetic field of a magnet • Describe how to plot the magnetic field of a magnet using a compass • Draw the magnetic field pattern of a bar magnet • Explain how a compass behaves when not in the magnetic field of a magnet	https://www.bbc.co.uk/bitesize/guides/zpt9v9q/revision/1	https://www.youtube.com/watch?v=sRyy7-jEu3Q
6.7.2 The motor effect	• Describe how an electromagnet is made • Describe how to change the strength of the electromagnet	https://www.bbc.co.uk/bitesize/guides/zg43y4j/revision/1 (just page 1)	https://www.youtube.com/watch?v=79_SF5AZtzo

These specification points will **not be assessed** on this paper.

Spec point NOT assessed
6.5.3 Forces and elasticity