

# AQA GCSE Physics: Foundation

Advance Information of Assessed Content 2022

Link to specification: <https://filestore.aqa.org.uk/resources/physics/specifications/AQA-8463-SP-2016.PDF>

Link to advance information document: <https://filestore.aqa.org.uk/content/summer-2022/AQA-8463-AI-22.PDF>

Link to revised Physics equation sheet: <https://filestore.aqa.org.uk/resources/physics/AQA-8463-ES-INS.PDF>

# Physics Paper 1 - F

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

**Exam date: 9<sup>th</sup> June**

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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
<b>4.1.1</b> Energy changes in a system, and the ways energy is stored before and after such changes	<ul style="list-style-type: none"> <li>-identifying the energy changes in systems</li> <li>-Calculate, using equations, the amount of energy associated with a moving object, a stretched spring and an object raised above ground level.</li> <li>-Calculate, using an equation, the amount of energy stored in or released from a system as its temperature changes</li> <li>-Calculate Power</li> </ul>	11-14	<a href="https://www.bbc.co.uk/bitesize/guides/zskp7p3/revision/1">https://www.bbc.co.uk/bitesize/guides/zskp7p3/revision/1</a>  <a href="https://www.bbc.co.uk/bitesize/guides/z8pk3k7/revision/1">https://www.bbc.co.uk/bitesize/guides/z8pk3k7/revision/1</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zy8g3k7/revision/1">https://www.bbc.co.uk/bitesize/guides/zy8g3k7/revision/1</a>	<a href="https://www.youtube.com/watch?v=JGwcDCeYRYo">https://www.youtube.com/watch?v=JGwcDCeYRYo</a>  <a href="https://www.youtube.com/watch?v=zy9eWzmGe4">https://www.youtube.com/watch?v=zy9eWzmGe4</a>  <a href="https://www.youtube.com/watch?v=Qw_9kX9PARc">https://www.youtube.com/watch?v=Qw_9kX9PARc</a>  <a href="https://www.youtube.com/watch?v=63OTIdNb-TE">https://www.youtube.com/watch?v=63OTIdNb-TE</a>  <a href="https://www.youtube.com/watch?v=EDT0DPhaaMY">https://www.youtube.com/watch?v=EDT0DPhaaMY</a>
<b>4.1.2</b> Conservation and dissipation of energy	<ul style="list-style-type: none"> <li>-Describe the law of the conservation of energy</li> <li>-Describe, and give examples of how energy is dissipated, or 'wasted'</li> <li>-Explain ways of reducing unwanted energy transfers</li> <li>-Describe thermal conductivity in relation to the rate of energy transfer by conduction, through a material</li> <li>-Calculate the efficiency of a device, process or system</li> </ul>	15-17	<a href="https://www.bbc.co.uk/bitesize/guides/z8hsrwx/revision/1">https://www.bbc.co.uk/bitesize/guides/z8hsrwx/revision/1</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zp8jtv4/revision/1">https://www.bbc.co.uk/bitesize/guides/zp8jtv4/revision/1</a>  <a href="https://www.bbc.co.uk/bitesize/guides/z2gjt4/revision/1">https://www.bbc.co.uk/bitesize/guides/z2gjt4/revision/1</a>	<a href="https://www.youtube.com/watch?v=H6D_ViW0Ch4">https://www.youtube.com/watch?v=H6D_ViW0Ch4</a>  <a href="https://www.youtube.com/watch?v=NI5jaeBrlgQ">https://www.youtube.com/watch?v=NI5jaeBrlgQ</a>  <a href="https://www.youtube.com/watch?v=43XCqAN53Sg">https://www.youtube.com/watch?v=43XCqAN53Sg</a>  <a href="https://www.youtube.com/watch?v=GTdgl-0KckA">https://www.youtube.com/watch?v=GTdgl-0KckA</a>

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<b>Required Practical 2:</b> investigate the effectiveness of different materials as thermal insulators and the factors that may affect the thermal insulation properties of a material	<ul style="list-style-type: none"> <li>-Identify dependent, independent and control variables</li> <li>-How to measure the dependent variable</li> <li>-Analysing results</li> <li>-Plotting graphs</li> <li>-Drawing conclusions from data</li> </ul>	16	<a href="https://www.bbc.co.uk/bitesize/guides/z2gjt4/revision/3">https://www.bbc.co.uk/bitesize/guides/z2gjt4/revision/3</a>	<a href="https://www.youtube.com/watch?v=ILH45loyPUA&amp;t=2s">https://www.youtube.com/watch?v=ILH45loyPUA&amp;t=2s</a>  <a href="https://www.youtube.com/watch?v=MUY1o4ogCvw">https://www.youtube.com/watch?v=MUY1o4ogCvw</a>
<b>4.2.1 Current, potential difference and resistance</b>	<p>Draw and interpret circuit diagram using conventional circuit symbols Use the equation that links current, charge and time Define current and electrical charge</p> <ul style="list-style-type: none"> <li>-know that current depend on resistance and potential difference</li> <li>-Use the equation that links potential difference , current and resistance</li> <li>-Describe and explain the relationship between current and potential difference for an ohmic conductor a diode and a filament bulb( recognise their IV graphs)</li> <li>-Describe how resistance is effected by temperature and light in thermistors and LDRs. Explain their use</li> </ul>	P24-27	<a href="https://www.bbc.co.uk/bitesize/guides/zpdtv9q/revision/1">https://www.bbc.co.uk/bitesize/guides/zpdtv9q/revision/1</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zpdtv9q/revision/2">https://www.bbc.co.uk/bitesize/guides/zpdtv9q/revision/2</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zpdtv9q/revision/3">https://www.bbc.co.uk/bitesize/guides/zpdtv9q/revision/3</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zpdtv9q/revision/4">https://www.bbc.co.uk/bitesize/guides/zpdtv9q/revision/4</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zpdtv9q/revision/5">https://www.bbc.co.uk/bitesize/guides/zpdtv9q/revision/5</a>	<a href="https://www.youtube.com/watch?v=TIHW5hEoaAw">https://www.youtube.com/watch?v=TIHW5hEoaAw</a>  <a href="https://www.youtube.com/watch?v=hRojfU77c38">https://www.youtube.com/watch?v=hRojfU77c38</a>  <a href="https://www.youtube.com/watch?v=R3hdaLpq2AA">https://www.youtube.com/watch?v=R3hdaLpq2AA</a>  <a href="https://www.youtube.com/watch?v=iNvGiTn64fQ">https://www.youtube.com/watch?v=iNvGiTn64fQ</a>

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4.2.5 Static electricity	Describe the production of static electricity and explain how this involve the transfer of electrons Describe the evidence that charged objects exert a force of attraction or repulsion. Explain sparking Draw electric field patterns for an isolated charged particle, explain the concept of an electric field,	P 35-36	<a href="https://www.bbc.co.uk/bitesize/guides/z9s4qhv/revision/1">https://www.bbc.co.uk/bitesize/guides/z9s4qhv/revision/1</a> <a href="https://www.bbc.co.uk/bitesize/guides/z9s4qhv/revision/2">https://www.bbc.co.uk/bitesize/guides/z9s4qhv/revision/2</a> <a href="https://www.bbc.co.uk/bitesize/guides/z9s4qhv/revision/3">https://www.bbc.co.uk/bitesize/guides/z9s4qhv/revision/3</a>	<a href="https://www.youtube.com/watch?v=St_KzxJqUGA">https://www.youtube.com/watch?v=St_KzxJqUGA</a> <a href="https://www.youtube.com/watch?v=v4ugAwV59U">https://www.youtube.com/watch?v=v4ugAwV59U</a>
4.4.2 Atoms and nuclear radiation	Know that some nuclei are unstable, and give off radiation to become more stable. -definition and units of activity and count rate Know the types of nuclear radiation and their properties -nuclear equations -half lives -contamination and irradiation	P44-47	<a href="https://www.bbc.co.uk/bitesize/guides/zxbnh39/revision/1">https://www.bbc.co.uk/bitesize/guides/zxbnh39/revision/1</a> <a href="https://www.bbc.co.uk/bitesize/guides/zp4vfcw/revision/1">https://www.bbc.co.uk/bitesize/guides/zp4vfcw/revision/1</a>	<a href="https://www.youtube.com/watch?v=F_Y1-JieCrg">https://www.youtube.com/watch?v=F_Y1-JieCrg</a> <a href="https://www.youtube.com/watch?v=nW0S1C6wVrg">https://www.youtube.com/watch?v=nW0S1C6wVrg</a> <a href="https://www.youtube.com/watch?v=wj9BzGFao8k">https://www.youtube.com/watch?v=wj9BzGFao8k</a> <a href="https://www.youtube.com/watch?v=teGu0VAPIOo">https://www.youtube.com/watch?v=teGu0VAPIOo</a>

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<b>Required Practical 5:</b> determine the densities of regular and irregular solid objects and liquids.	<ul style="list-style-type: none"> <li>-Method to determine density of regular shaped objects</li> <li>-Method to determine density of irregular shaped objects</li> <li>-Measurements needed to determine mass and volume of objects</li> <li>-Equipment and apparatus</li> </ul>	P38	<a href="https://www.bbc.co.uk/bitesize/guides/zsqngdm/revision/1">https://www.bbc.co.uk/bitesize/guides/zsqngdm/revision/1</a>	<a href="https://www.youtube.com/watch?v=ScXOp8Zph28">https://www.youtube.com/watch?v=ScXOp8Zph28</a>  <a href="https://www.youtube.com/watch?v=lvqu6JAbaKc">https://www.youtube.com/watch?v=lvqu6JAbaKc</a>
<b>4.3.1</b> Changes of state and particle model	<ul style="list-style-type: none"> <li>-Define and calculate the density of a substance or object</li> <li>-recognise/draw simple diagrams to model the difference between solids, liquids and gases</li> <li>-explain the differences in density between the different states of matter in terms of the arrangement of atoms/molecules.</li> <li>-describe how, when substances change state mass is conserved.</li> <li>-Describe changes of state as physical changes</li> </ul>	P38-39	<a href="https://www.bbc.co.uk/bitesize/guides/zqjv6yc/revision/1">https://www.bbc.co.uk/bitesize/guides/zqjv6yc/revision/1</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zwwfxfr/revision/1">https://www.bbc.co.uk/bitesize/guides/zwwfxfr/revision/1</a>	<a href="https://www.youtube.com/watch?v=hkBrw2fG75U">https://www.youtube.com/watch?v=hkBrw2fG75U</a>  <a href="https://www.youtube.com/watch?v=-EZmXVOSa20">https://www.youtube.com/watch?v=-EZmXVOSa20</a>
<b>4.3.2</b> Internal energy and energy transfers	<ul style="list-style-type: none"> <li>-Define internal energy, specific heat capacity &amp; specific latent heat</li> <li>-Calculate, using an equation, the amount of energy stored in or released from a system as its temperature changes</li> <li>-interpret heating &amp; cooling graphs</li> <li>-Use an equation that links energy transferred, mass and specific latent heat</li> </ul>	P39-40	<a href="https://www.bbc.co.uk/bitesize/guides/zcncjty/revision/1">https://www.bbc.co.uk/bitesize/guides/zcncjty/revision/1</a>	<a href="https://www.youtube.com/watch?v=4rT7-5yE4pQ">https://www.youtube.com/watch?v=4rT7-5yE4pQ</a>  <a href="https://www.youtube.com/watch?v=5WVT5NR0iLA">https://www.youtube.com/watch?v=5WVT5NR0iLA</a>  <a href="https://www.youtube.com/watch?v=x7GZ2DXef84">https://www.youtube.com/watch?v=x7GZ2DXef84</a>

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Spec point	CGP Revision Guide Pages
4.2.3 Domestic uses and safety	P31
4.3.3 Particle model and pressure	P41
4.4.1 Atoms and isotopes	P43, P44 (top half on isotopes)
4.4.3 Hazards and uses of radioactive emissions and of background radiation	P47 (top half on background radiation), P48
4.4.4 Nuclear fission and fusion	P49

# Physics Paper 2 - F

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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
<b>4.5.1</b> Forces and their interactions	<p>Describe the difference between scalar and vector quantities and give examples</p> <ul style="list-style-type: none"> <li>-give examples of contact and non-contact forces</li> <li>-Describe the relationship between mass, weight and gravitational field strength</li> <li>-Use an equation to calculate weight</li> <li>-Calculate the resultant of two forces that act in a straight line.</li> <li>-Use vector diagrams to illustrate the resolving of forces e.g. two components acting at right angles to each other</li> <li>-Use 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</li> </ul>	P51-54	<p><a href="https://www.bbc.co.uk/bitesize/guides/zpqngdm/revision/1">https://www.bbc.co.uk/bitesize/guides/zpqngdm/revision/1</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/zyxv97h/revision/1">https://www.bbc.co.uk/bitesize/guides/zyxv97h/revision/1</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/zgncjty/revision/1">https://www.bbc.co.uk/bitesize/guides/zgncjty/revision/1</a></p>	<p><a href="https://www.youtube.com/watch?v=P1ISWWUkMdQ">https://www.youtube.com/watch?v=P1ISWWUkMdQ</a></p> <p><a href="https://www.youtube.com/watch?v=xxK8N23nx9M">https://www.youtube.com/watch?v=xxK8N23nx9M</a></p> <p><a href="https://www.youtube.com/watch?v=W2aBVbcHr_k">https://www.youtube.com/watch?v=W2aBVbcHr_k</a></p> <p><a href="https://www.youtube.com/watch?v=PL8ATKipoB4">https://www.youtube.com/watch?v=PL8ATKipoB4</a></p> <p><a href="#">GCSE Physics - Vector Diagrams and Resultant Forces #43 – YouTube</a></p> <p><a href="#">Resolving Forces using Scale Drawings – YouTube</a></p>
<b>4.5.2</b> Work done and energy transfer	<ul style="list-style-type: none"> <li>-Use an equation to calculate the work done to an object</li> <li>-Convert between newton-metres and joules.</li> <li>-Work done against the frictional forces acting on an object causes a rise in the temperature of the object.</li> </ul>	P53	<p><a href="https://www.bbc.co.uk/bitesize/guides/zgncjty/revision/3">https://www.bbc.co.uk/bitesize/guides/zgncjty/revision/3</a></p>	<p><a href="https://www.youtube.com/watch?v=JHEmPZ-YnrU">https://www.youtube.com/watch?v=JHEmPZ-YnrU</a></p>

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<b>4.5.6.1:</b> Describing motion along a line	<ul style="list-style-type: none"> <li>-Describe the difference between distance and displacement</li> <li>-Use an equation to calculate speed</li> <li>-describe the difference between speed and velocity</li> <li>-explain that motion in a circle involves constant speed but changing velocity.</li> <li>-Interpret distance-time graphs and velocity-time graphs</li> <li>-Calculate speed of an accelerating object at any particular time by drawing a tangent and measuring the gradient of the distance–time graph at that time</li> <li>-Calculate the distance travelled /displacement of an object by calculating the area under a velocity–time graph.</li> <li>-Use an equation to calculate acceleration</li> <li>-Describe how an object reaches terminal velocity</li> </ul>	P60-63	<p><a href="https://www.bbc.co.uk/bitesize/guides/zwc7pbk/revision/1">https://www.bbc.co.uk/bitesize/guides/zwc7pbk/revision/1</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/zp2fcj6/revision/1">https://www.bbc.co.uk/bitesize/guides/zp2fcj6/revision/1</a></p>	<p><a href="https://www.youtube.com/watch?v=QaU9jMHh7gE">https://www.youtube.com/watch?v=QaU9jMHh7gE</a></p> <p><a href="https://www.youtube.com/watch?v=M_OFRIX8wIM">https://www.youtube.com/watch?v=M_OFRIX8wIM</a></p> <p><a href="https://www.youtube.com/watch?v=DkCw2C-DkT0">https://www.youtube.com/watch?v=DkCw2C-DkT0</a></p> <p><a href="https://www.youtube.com/watch?v=b0VKIpetP9A">https://www.youtube.com/watch?v=b0VKIpetP9A</a></p> <p><a href="https://www.youtube.com/watch?v=Kzx8GBTI5VM">https://www.youtube.com/watch?v=Kzx8GBTI5VM</a></p> <p><a href="https://www.youtube.com/watch?v=YCVSQp428GI">https://www.youtube.com/watch?v=YCVSQp428GI</a></p> <p><a href="https://www.youtube.com/watch?v=VRvjQBji0oY">https://www.youtube.com/watch?v=VRvjQBji0oY</a></p> <p><a href="https://www.youtube.com/watch?v=EKrAPvSin-M">https://www.youtube.com/watch?v=EKrAPvSin-M</a></p>

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<b>4.6.1</b> Waves in air, fluids and solids	<ul style="list-style-type: none"> <li>-Describe the differences between transverse and longitudinal waves and give examples</li> <li>-Define the property terms of waves</li> <li>-Compare properties of waves</li> <li>-Use an equation to calculate a time period</li> <li>-Use an equation that links wave speed, frequency and wavelength</li> <li>-describe a method to measure the speed of sound waves in air</li> <li>-describe a method to measure the speed of ripples on a water surface.</li> <li>-construct ray diagrams to illustrate the reflection of a wave at a surface.</li> <li>-describe the effects of reflection, transmission and absorption of waves at material interfaces.</li> </ul>	P73-75; P88-90	<p><a href="https://www.bbc.co.uk/bitesize/guides/zgf97p3/revision/1">https://www.bbc.co.uk/bitesize/guides/zgf97p3/revision/1</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/z9bw6yc/revision/1">https://www.bbc.co.uk/bitesize/guides/z9bw6yc/revision/1</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/zw42ng8/revision/1">https://www.bbc.co.uk/bitesize/guides/zw42ng8/revision/1</a></p>	<p><a href="https://www.youtube.com/watch?v=aCu4VRKMstA">https://www.youtube.com/watch?v=aCu4VRKMstA</a></p> <p><a href="https://www.youtube.com/watch?v=8K6gOST8pZk">https://www.youtube.com/watch?v=8K6gOST8pZk</a></p> <p><a href="https://www.youtube.com/watch?v=wO49W5lsP0s">https://www.youtube.com/watch?v=wO49W5lsP0s</a></p>
<b>Required practical 9:</b> investigate the reflection of light by different types of surface and the refraction of light by different substances.	<ul style="list-style-type: none"> <li>-Identify dependent, independent and control variables</li> <li>-How to measure the dependent variable</li> <li>-Analysing results</li> <li>-Plotting graphs</li> <li>-Drawing conclusions from data</li> </ul>	P77	<p><a href="https://www.bbc.co.uk/bitesize/guides/zw42ng8/revision/3">https://www.bbc.co.uk/bitesize/guides/zw42ng8/revision/3</a></p>	<p><a href="https://www.youtube.com/watch?v=2fN_jvf4fw8">https://www.youtube.com/watch?v=2fN_jvf4fw8</a></p> <p><a href="https://www.youtube.com/watch?v=tiqiN3y1ze4">https://www.youtube.com/watch?v=tiqiN3y1ze4</a></p>

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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
4.6.2 Electromagnetic waves	<p>Describe the order of the electromagnetic spectrum</p> <ul style="list-style-type: none"> <li>- Describe the properties of the different parts of the EM spectrum</li> <li>- Describe the uses of the different parts of the EM spectrum</li> <li>- Describe the hazards associated with the different parts of the EM spectrum                             <ul style="list-style-type: none"> <li>- Describe how changes in atoms and the nuclei of atoms can result in EM waves being generated</li> </ul> </li> <li>construct ray diagram of concave and convex lenses                             <ul style="list-style-type: none"> <li>- Calculate magnification</li> <li>- Know that lenses form images by refraction.</li> <li>- Know the difference between virtual and real images</li> <li>- how the colour of an object is related to the differential absorption, transmission and reflection of different wavelengths of light by the object                                     <ul style="list-style-type: none"> <li>• the effect of viewing objects through filters or the effect on light of passing through filters</li> <li>• why an opaque object has a particular colour</li> </ul> </li> </ul> </li> </ul>	P76, P78-85	<p><a href="https://www.bbc.co.uk/bitesize/guides/z9bw6yc/revision/3">https://www.bbc.co.uk/bitesize/guides/z9bw6yc/revision/3</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/z9bw6yc/revision/4">https://www.bbc.co.uk/bitesize/guides/z9bw6yc/revision/4</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/z9bw6yc/revision/5">https://www.bbc.co.uk/bitesize/guides/z9bw6yc/revision/5</a></p>	<p><a href="https://www.youtube.com/watch?v=7v2gs8rdQzU">https://www.youtube.com/watch?v=7v2gs8rdQzU</a></p> <p><a href="https://www.youtube.com/watch?v=Ldnh0XIMVc0">https://www.youtube.com/watch?v=Ldnh0XIMVc0</a></p> <p><a href="https://www.youtube.com/watch?v=ow26-5UirSc">https://www.youtube.com/watch?v=ow26-5UirSc</a></p> <p><a href="https://www.youtube.com/watch?v=dBFGjdgbpno">https://www.youtube.com/watch?v=dBFGjdgbpno</a></p> <p><a href="https://www.youtube.com/watch?v=q_CxKQC-zpg">https://www.youtube.com/watch?v=q_CxKQC-zpg</a></p>

# Physics Paper 2 - F

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

**Exam date: 23<sup>rd</sup> June**

All other specification points from P2, other than those on the [next slide](#) that are 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	CGP revision guide pages	Bitesize	YouTube
4.8.1 Solar system, stability of orbital motions, satellites	<ul style="list-style-type: none"><li>-Describe the structure of the universe and our solar system</li><li>-Describe the life cycle of a star</li><li>-explain how fusion processes lead to the formation of new elements.</li><li>-describe the similarities and distinctions between the planets, their moons, and artificial satellites.</li><li>-explain qualitatively how for circular orbits, the force of gravity can lead to changing velocity but unchanged speed, for a stable orbit, the radius must change if the speed changes.</li></ul>	P100-101	<p><a href="https://www.bbc.co.uk/bitesize/guides/zt2fcj6/revision/1">https://www.bbc.co.uk/bitesize/guides/zt2fcj6/revision/1</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/zpxv97h/revision/1">https://www.bbc.co.uk/bitesize/guides/zpxv97h/revision/1</a></p>	<p><a href="https://www.youtube.com/watch?v=mndRVjMovQk">https://www.youtube.com/watch?v=mndRVjMovQk</a></p> <p><a href="https://www.youtube.com/watch?v=VOY1JIVuin4">https://www.youtube.com/watch?v=VOY1JIVuin4</a></p> <p><a href="https://www.youtube.com/watch?v=okMA18ppu98">https://www.youtube.com/watch?v=okMA18ppu98</a></p>

# Physics Paper 2 - H

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

**Exam date: 23<sup>rd</sup> June**

Spec point	CGP Revision Guide Pages
<b>4.5.4</b> Moments, levers and gears	P57
<b>4.5.6.2</b> Forces acceleration and Newtons law of motion	P64-66
<b>4.5.6.3</b> Forces and braking	P67-69
<b>4.6.2</b> Electromagnetic waves ( HT only)	P78 top section, Radio waves are made by oscillating charges
<b>4.6.3</b> Black body radiation	P86-87
<b>4.7.1</b> Red shift	p102