Physics revision for Paper 1 Physics Paper (Topics P1 – P4)

Step1: Read your revision guide/ watch the videos/ pause the video and make notes

Step 2: Make revision cards/ notes using your revision guide and the videos.

Step 3: Attempt the exam questions (at least 4 from each section) and self-assess.

Step 4: Go back and look at and amend revision notes if needed

Note: Please remember the Revision mats on the VLE

Note: If you are confident on a topic - you may not need to watch the video!

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| Topic | Further details and links | Exam questions  |
|  | * Primrose kitten Paper 1 Revision <https://www.youtube.com/watch?v=xtw-Z0nllA4&list=PL7O6CcKg0HaFYC_J92AxS1pfepJJK8kxt&index=5>
 | Paper 1 2018 Paper ( This tests topics P1 to P4) Triple: [**https://LOBUNII.exampro.net**](https://lobunii.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://LOBUNII.exampro.net" \t "_blank)Higher [**https://SAFULIF.exampro.net**](https://safulif.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://SAFULIF.exampro.net" \t "_blank)Foundation [**https://AOMOAOR.exampro.net**](https://aomoaor.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://AOMOAOR.exampro.net" \t "_blank) |
| P1 Energy | The videos below are very short and are mainly from cognito: * Energy stores and energy systems: <https://www.youtube.com/watch?v=JGwcDCeYRYo&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7>
* Kinetic energy <https://www.youtube.com/watch?v=WrFCHt21kVA&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7&index=2>
* Gravitational Potential energy
* <https://www.youtube.com/watch?v=rNS-W7k0jts&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7&index=3>
* Conservation of energy
* <https://www.youtube.com/watch?v=H6D_ViW0Ch4&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7&index=4>
* Conduction, Convection :
* <https://www.youtube.com/watch?v=Eizsm5V8c_c&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7&index=5>
* Power and work done:
* <https://www.youtube.com/watch?v=kCJUzdCBOk0&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7&index=7>
* Efficiency
* <https://www.youtube.com/watch?v=7hcv_mxcA-g&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7&index=8>
* Introduction to energy Sources:
* <https://www.youtube.com/watch?v=AOhQ4gj4Ng8&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7&index=9>
* Wind and Solar:
* <https://www.youtube.com/watch?v=loJjcGutYZg&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7&index=10>
* Biofuels
* <https://www.youtube.com/watch?v=DsCCM6JSmaA&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7&index=12>
* Hydroelectricity and Tidal Barrage
* <https://www.youtube.com/watch?v=oRFZvbHl4Ck&list=PLidqqIGKox7UVC-8WC9djoeBzwxPeXph7&index=13>

The videos below are ones we made in school, they are slightly longer you do not need to watch both* P1-01 National and global energy resources <http://youtu.be/oT9leZrq-LI?hd=1>
* P1-02 Renewable Energy Resources <http://youtu.be/vecBS1wUM6A?hd=1>
* P1-03 Non-renewable Energy Resources <http://youtu.be/BmV-_kP9sSI?hd=1>
* Pl-04 Renewable Energy Resources <http://youtu.be/ijvUEil4TXc?hd=1>
* P1-05 Energy Changes <http://youtu.be/-PdAp6zqLNg?hd=1>
* P1-06 Calculating Gravitational potential energy <http://youtu.be/d066YFhIyik?hd=1>
* P1-07 Calculating Kinetic energy <http://youtu.be/dxVfuWI45Dk?hd=1>
* P1-07 (2) Linking Kinetic energy (Ek) and Ep <http://youtu.be/2dpIIy9DPdQ?hd=1>
* P1-08 Calculating Elastic potential energy <http://youtu.be/m6vE7EHyw3U?hd=1>
* P1-09 Specific heat capacity <http://youtu.be/Z_MKexDn25o?hd=1>
* P1-10 Specific heat capacity RPA 1 – All <http://youtu.be/Kg7GiRKjfCc?hd=1>
* P1-11 Energy and Power <http://youtu.be/0XoYioYPcPQ?hd=1>
* P1-12 Energy dissipation and efficiency <http://youtu.be/gIy8-pTASwE?hd=1>

Triple only: Insulation - GCSE Science Required Practical <https://www.youtube.com/watch?v=MUy1o4ogCvw&list=PLGvD8d3gDHUWvqi07g1Fa9f0LmvveiGzt&index=25>The videos below are from Isaac Physics and can be quite challenging : Energy summary : <https://youtu.be/T5pqmsjMbZk> | **Energy foundation questions** [**https://XIKUIIO.exampro.net**](https://xikuiio.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://XIKUIIO.exampro.net" \t "_blank)Energy Higher [**https://JAEOWUX.exampro.net**](https://jaeowux.exampro.net/)Energy Triple [**https://NUGEKYX.exampro.net**](https://nugekyx.exampro.net/) |
| P2 Electricity | * Introduction to circuits <https://www.youtube.com/watch?v=R3hdaLpq2AA>
* V = IR Equation & Current/Potential Difference Graphs <https://www.youtube.com/watch?v=hRojfU77c38>
* Series Circuits<https://www.youtube.com/watch?v=ZQurBlu35Fo>
* Parallel circuits <https://www.youtube.com/watch?v=jNFXtjt5muI>
* Components: <https://www.youtube.com/watch?v=AQawCNla5Fg>
* Charge <https://www.youtube.com/watch?v=TIHW5hEoaAw>
* Plugs and wires : <https://www.youtube.com/watch?v=2g8SusMrX_o>
* National grid : <https://www.youtube.com/watch?v=VTAFjhO1HNo>
* AC DC <https://www.youtube.com/watch?v=EY_EphcrpDI>
* Fuses and Earthing <https://www.youtube.com/watch?v=S8lB2kxT1n0>

Resistance of a Wire - GCSE Science Required Practical<https://www.youtube.com/watch?v=m_3JrA-sDEg&list=PLGvD8d3gDHUWvqi07g1Fa9f0LmvveiGzt&index=32>Resistors in Series & Parallel - GCSE Science Required Practical<https://www.youtube.com/watch?v=51mSWRfAsAw&list=PLGvD8d3gDHUWvqi07g1Fa9f0LmvveiGzt&index=33>Testing Components (I-V Characteristics) - GCSE Science Required Practical<https://www.youtube.com/watch?v=ksPfzUjMbBk&list=PLGvD8d3gDHUWvqi07g1Fa9f0LmvveiGzt&index=24>Triple Physics only Static Electricity <https://www.youtube.com/watch?v=St_KzxJqUGA>Electric Fields <https://www.youtube.com/watch?v=_v4ugAwV59U>The videos below are from Isaac Physics and can be quite challenging :This is a summary video from Isaac Physics : <https://youtu.be/N9Tb013DQqQ>Circuit practice questions : <https://youtu.be/nDk6QIgGpw8>Circuit practice questions 2 <https://youtu.be/-HPV4lkWD60>Parallel circuit practice : <https://youtu.be/GbCxepCCqrs>Practical resistance of a wire <https://youtu.be/WEhcpvKtPyY>Fuse selection : <https://youtu.be/IFIdZvscfMU> | **Electricity Foundation** [**https://FUPEKAB.exampro.net**](https://fupekab.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://FUPEKAB.exampro.net" \t "_blank)Electricity Higher[**https://YEDYGYM.exampro.net**](https://yedygym.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://YEDYGYM.exampro.net" \t "_blank)Electricity Triple [**https://CUZEREH.exampro.net**](https://cuzereh.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://CUZEREH.exampro.net" \t "_blank) |
| P3 Particle model of matter | * P3 Part 1 ( Calculating density) <https://www.youtube.com/watch?v=SQ9k6976XjA>
* Specific heat capacity : <https://youtu.be/EexkJIqB-X0>
* Latent Heat : <https://youtu.be/ByaCI5uWUe0>
* Particle motion in gases: <https://www.youtube.com/watch?v=hKO3DpgiISk>
* Pressure of gases : <https://www.youtube.com/watch?v=9PwzPDJ7GYc>
* Particle model of matter : <https://www.youtube.com/watch?v=OTksau0_VoI>

Density - GCSE Science Required Practical<https://www.youtube.com/watch?v=lvqu6JAbaKc&list=PLGvD8d3gDHUWvqi07g1Fa9f0LmvveiGzt&index=29>Specific Heat Capacity - GCSE Science Required Practicalhttps://www.youtube.com/watch?v=loeRLKNeUsc&list=PLGvD8d3gDHUWvqi07g1Fa9f0LmvveiGzt&index=30 | **P3 Foundation Question** [**https://DAPEWAR.exampro.net**](https://dapewar.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://DAPEWAR.exampro.net" \t "_blank)P3 Higher[**https://AACOAEI.exampro.net**](https://aacoaei.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://AACOAEI.exampro.net" \t "_blank)P3 Triple <https://KOUOPEX.exampro.net>QR code |
| P4 Atomic Structure | * Atomic Structure, Isotopes & Electrons Shells <https://www.youtube.com/watch?v=KwOHJbE4Tro>
* Alpha, Beta and Gamma Radiation <https://www.youtube.com/watch?v=VeXpMijpazE>
* Half-life: <https://www.youtube.com/watch?v=zXw2cOSBB8E>

Triple Physics Content only :* Nuclear Fission including nuclear power <https://www.youtube.com/watch?v=ZKHpix5dgAU>
* Nuclear Fusion : <https://www.youtube.com/watch?v=g_BUbEIyaz8>
* Background radiation : <https://www.youtube.com/watch?v=Z7394DMkfQs>

This is a summary video from Isaac Physics: <https://youtu.be/s8RMdzN-akI>Half-life practice : <https://youtu.be/5PXpUyNmqhE>Nuclear equation practice: <https://youtu.be/CVnKyknqjms> | **P4 Foundation** [**https://NOUADER.exampro.net**](https://nouader.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://NOUADER.exampro.net" \t "_blank)P4 Higher[**https://YEDUGIH.exampro.net**](https://yedugih.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://YEDUGIH.exampro.net" \t "_blank)P4 Triple [**https://WEAOIYD.exampro.net**](https://weaoiyd.exampro.net/)[QR code](https://app.doublestruck.eu/data/qr.php?u=https://WEAOIYD.exampro.net" \t "_blank) |