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)](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)](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)](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)](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)](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)](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)](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 Practical  https://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)](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)](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)](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)](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)](https://app.doublestruck.eu/data/qr.php?u=https://WEAOIYD.exampro.net" \t "_blank) |