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

Follow these steps to optimise your revision schedule;

Step 1: Read your revision guide/watch the videos and **make summary notes**

Step 2: Make revision flash cards/notes of the key information using your revision guide and the videos and **test yourself**

Step 3: Attempt some exam questions (at least 4 from each section) **and self-assess** using the mark schemes

Step 4: Go back to step 1 and repeat as 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 |
| Paper 1 | Primrose kitten Paper 1 summary  <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 | * 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> * P1-04 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> | **P1 Energy questions**  Triple:  [**https://NOJOYUM.exampro.net**](https://nojoyum.exampro.net/)    Higher:  [**https://FUAAQIC.exampro.net**](https://fuaaqic.exampro.net/)    Foundation:  [**https://GYVOTUH.exampro.net**](https://gyvotuh.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>   P2 required practical’s:   * 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:   * Summary video: <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> | **P2 Electricity questions**  Triple:  [**https://YEDUWEL.exampro.net**](https://yeduwel.exampro.net/)    Higher:  [**https://NUDUROK.exampro.net**](https://nudurok.exampro.net/)    Foundation:  [**https://VECACYA.exampro.net**](https://vecacya.exampro.net/) |
| 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> * Specific 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>   P3 required practical’s:   * 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 Particle model of matter questions**  Triple:  [**https://HOKEQUE.exampro.net**](https://hokeque.exampro.net/)    Higher:  [**https://GOQUROE.exampro.net**](https://goquroe.exampro.net/)    Foundation:  [**https://IUPOTUQ.exampro.net**](https://iupotuq.exampro.net/) |
| 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 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>   The videos below are from Isaac Physics and can be quite challenging:   * Summary video: <https://youtu.be/s8RMdzN-akI> * Half-life practice: <https://youtu.be/5PXpUyNmqhE> * Nuclear equation practice: <https://youtu.be/CVnKyknqjms> | **P4 Atomic structure questions**  Triple:  [**https://KIBOVOJ.exampro.net**](https://kibovoj.exampro.net/)    Higher:  [**https://MUDEFUD.exampro.net**](https://mudefud.exampro.net/)    Foundation:  [**https://GYQOEUQ.exampro.net**](https://gyqoeuq.exampro.net/) |