**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" \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 | * 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/) |