

Revision for physics: Paper 2 (2022) Foundation

For knowledge organisers – see JSTC website: <https://www.jstc.org.uk/science>

Topic title	Brief content overview	Required practical	External Links
P8 Forces in balance	<ul style="list-style-type: none"> • Vectors and scalars • Contact and none contact forces • Resultant forces • Centre of mass 		FreeSciencelessons on YouTube : https://www.youtube.com/watch?v=P1ISWWUkMdQ&list=PL9IouNCPbCxUrQkFLoPwB67nDbhw2NfAO 1-6 BBC bitesize https://www.bbc.co.uk/bitesize/topics/ztmmtv4
P9 motion	<ul style="list-style-type: none"> • Speed • Speed distance time graphs • Acceleration • Velocity time graphs 		BBC bitesize https://www.bbc.co.uk/bitesize/topics/ztmmtv4 FreeSciencelessons on YouTube : https://www.youtube.com/watch?v=P1ISWWUkMdQ&list=PL9IouNCPbCxUrQkFLoPwB67nDbhw2NfAO 15-19
P10 Force and motion	<ul style="list-style-type: none"> • Forces and acceleration • Weight and terminal velocity • Road safety 		FreeSciencelessons on YouTube : https://www.youtube.com/watch?v=_W3VbonFNcw https://www.youtube.com/watch?v=P1ISWWUkMdQ&list=PL9IouNCPbCxUrQkFLoPwB67nDbhw2NfAO 6,7 20-27 Physics online https://www.youtube.com/watch?v=oZpvGs2-Xyk BBC bitesize https://www.bbc.co.uk/bitesize/topics/ztmmtv4
P11 waves	<ul style="list-style-type: none"> • Types of wave • Properties of waves • Reflection and refraction 		FreeSciencelessons on YouTube: https://www.youtube.com/playlist?list=PL9IouNCPbCxX1-0Nr5_bMDJnN-9RqMuA6 1-5 11-14 Physics online https://www.youtube.com/watch?v=g0JGEmbfsiE BBC Bitesize https://www.bbc.co.uk/bitesize/topics/z2j22nb

Revision for physics: Paper 2 (2022) Foundation

<p style="text-align: center;">P12 electromagnetic waves</p>	<ul style="list-style-type: none"> • The electromagnetic spectrum • Light, infrared, microwaves and radio waves • Communications • Ultraviolet, x-rays and gamma rays 	<p>Infrared radiation R.P 21</p>	<p>FreeSciencelessons on YouTube: https://www.youtube.com/watch?v=u5vkYjV1V1A</p> <p>Physics online https://www.youtube.com/watch?v=g0JGEmbfsiE</p> <p>BBC Bitesize https://www.bbc.co.uk/bitesize/guides/z3yq4qt/revision/3</p>
<p style="text-align: center;">P13 Electromagnetism</p>	<ul style="list-style-type: none"> • Magnetic fields • Magnetic fields of electric current • Electromagnets 		<p>FreeSciencelessons on YouTube: physics online https://www.youtube.com/watch?v=0YIAA4LlkQI</p> <p>BBC Bitesize https://www.youtube.com/playlist?list=PL9IouNCPbCxVean2cWoznpfC5PxYbs9TX</p>