
















# Year 11

## Transition tasks - Summer 2021 (Physics)









 <p><b>Complete</b> this course in which you will learn the physical processes behind climate variation around the world to better understand the causes of climate change.</p> <p><a href="#">Causes of Climate Change</a> <i>University of Bergen and Bjerknes Centre for Climate Research</i></p>	 <p><b>Listen to this radio programme</b> in which BBC security correspondent Gordon Corera goes inside Britain's secret listening station.</p> <p><a href="#">GCHQ Cracking the Code</a> <i>BBC Sounds</i></p>	 <p><b>Review a scientific paper</b> with the Warwick University journal club. Warning - this is challenging (but very worthwhile) for year 11 students. Do seek teacher support if you struggle!</p> <p><a href="#">Weekly Journal club</a> <i>University of Warwick</i></p>	 <p><b>Watch</b> this video about the big bang theory of how the universe began - why not subscribe and watch the rest of their great content.</p> <p><a href="#">The beginning of everything</a> <i>Kurzgesagt channel</i></p>	 <p><b>Complete</b> this course, which explores the science behind nuclear energy and its role in energy provision in the past, present and future.</p> <p><a href="#">The Science of Nuclear Energy</a> <i>The Open University</i></p>
 <p><b>Listen to this radio programme</b> which explores why NASA's third bid to land on the moon was flawed from the start.</p> <p><a href="#">13 Minutes to the Moon</a> <i>BBC Sounds</i></p>	 <p><b>Read this article</b> from a clinical psychologist which provides practical ways to overcome whatever life throws your way.</p> <p><a href="#">8 tips to help you become more resilient</a> <i>Ideas TED</i></p>	 <p><b>Listen to this radio programme</b> in which Brian Cox meets some celebrity physics enthusiasts, including Alan Alda and Eddie Izzard.</p> <p><a href="#">Physics Rocks</a> <i>BBC Sounds</i></p>	 <p>If the links don't work for you, try copying them and pasting directly this works better in some cases</p>	 <p><b>Watch</b> this Royal Institution Talk in which Jim Al-Khalili explores the fundamental concepts of modern physics.</p> <p><a href="#">The World According to Physics</a> <i>Royal Institution</i></p>
 <p><b>Read this book</b> by world famous physicist Stephen Hawking</p> <p><a href="#">Brief Answers to Big Questions</a> <i>Mydownloadbook.com</i></p>	 <p><b>Watch this TED talk</b> which explains why surfers are masters of complicated physics.</p> <p><a href="#">The Physics of surfing</a> <i>TED Talk – Nick Pizzo</i></p>	 <p><b>Listen to this radio programme</b> in which Susan Marling asks why the UK has the lowest proportion of female engineers in Europe.</p> <p><a href="#">Britain's Hidden Talent: Women Engineers</a> <i>BBC Sounds</i></p>	 <p><b>Listen to this radio programme</b> which explores all sorts of science-related topics (including the Coronavirus).</p> <p><a href="#">BBC Inside Science</a> <i>BBC Sounds</i></p>	 <p><b>Watch</b> this TED talk in which George Zaidan describes the physics behind this frustrating phenomenon.</p> <p><a href="#">Why is ketchup so hard to pour</a> <i>TED Talk – George Zaidan</i></p>

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 <p><b>Listen to this radio programme</b></p> <p>on great scientists such as physicist <a href="#">Paul Dirac</a> Or mathematician and physicist <a href="#">Carl Gauss</a> Or find out more about the planet <a href="#">Venus</a> Or all about <a href="#">Kinetic Theory</a> <i>In Our Time – BBC Sounds</i></p>	 <p><b>Complete this course</b> which will teach you how to solve encrypted maths puzzles, in which numbers are replaced by letters or symbols.</p> <p><a href="#">Maths Puzzles: Cryptarithms, Symbologies and Secret Codes</a> <i>Weizmann Institute of Science</i></p>	 <p><b>Watch these videos</b> composed of 7 short clips on the world of particle physics using lego (and optional question board)</p> <p><a href="#">Particle Physics</a> <i>Alevelphysics online,com</i></p>	 <p><b>Complete this course</b> of weekly online tutorials and practice questions to reinforce your GCSE Physics skills</p> <p><a href="#">GCSE Physics Skills</a> <i>Isaac Physics</i></p>	 <p><b>Listen to this radio programme</b> which tackles the big issue of lack of diversity in engineering. In the UK, 91% of jobs in the engineering industry are filled by men and 92% of jobs are filled by white people. So what can we do about it?</p> <p><a href="#">BBC Live Wires</a> <a href="#">How can we make UK engineering more diverse?</a> <i>BBC Sounds</i></p>
		 <p><b>Complete the final P8 Space topic</b> and fill the gaps in your GCSE knowledge</p> <p><a href="#">Lesson Resources</a> <i>Oak Academy</i></p>		