PHYSICS

EXPECTATIONS	Remind yourself of the subject expectations and the syllabus by watching the
	Subject Video on the school website:
	https://sixthform.fulford.york.sch.uk/curriculum-offer/
PURCHASE	Recommended for both Y12 & Y13: CGP AQA A-Level Physics Year 1 & 2 Student Book.
-	ISBN: 9781789080483
\Box	
Ш	Sold in school at the start of Y12 for less than the cost on Amazon.
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REVIEW	Core content from GCSE. The most important units for Term 1 are:
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	P2 – Electricity
	P4 – Atomic Structure
	P5 – Force & Extension (Hooke's Law)
READ	Suggestions for wider reading:
	Moondust: In Search of the Men Who Fell to Earth ISBN: 1526611570
	This book uses the personal accounts of 9 astronauts and many others involved in the
	space program, looking at the whole space-race era.
	Suraly You're laking Mr Founday, Adventures of a Curious Character (SDN), 000047334V
	Surely You're Joking Mr Feynman: Adventures of a Curious Character ISBN: 009917331X By reading this book you will get insight into his life's work including the creation of the
	first atomic bomb and his work in the field of particle physics.
	Thist atomic bomb and his work in the held of particle physics.
	Quantum Theory Cannot Hurt You: Understanding the Mind-Blowing Building Blocks of
	the Universe ISBN: 0571235468
	Any physics book by Marcus Chown is an excellent insight into some of the more exotic
	areas of physics that require no prior knowledge
	A characteristic of New J. E. and Mark ISBN acceptance
	A short History of Nearly Everything ISBN: 0552997048
	A whistle-stop tour through many aspects of history from the Big Bang to now. This is a
	really accessible read that will re- familiarise you with common concepts and introduce you to some of the more colourful characters from the history of science.
	you to some of the more colourful characters from the history of science.
	Thing Explainer: Complicated Stuff in Simple Words ISBN: 9781473620919
	Written by the creator of online comic XTCD (a great source of science humour) is a book
	of blueprints from everyday objects such as a biro to the Saturn V rocket and an atom
	bomb.
WATCH/LISTEN	Even Bananas (Fermilab video podcast)
	Available at: https://www.voutube.com/playlict3lict=BLCfDa7NAVBEcn1cylc74chiCN4cllb
	Available at: https://www.youtube.com/playlist?list=PLCfRa7MXBEsp1cvIsZ4shi6MrHb-tnAqT
	<u>uiriqi</u>
	Our universe is full of mysteries - especially when it comes to the smallest scale of nature!
	Explore the fascinating world of fundamental particles called neutrinos with Fermilab
	scientist Dr. Kirsty Duffy.

From mach-20 glider to hummingbird drone

Available at: https://www.ted.com/talks/regina_dugan_f
https://www.ted.com/talks/regina_dugan_f
https://www.ted.com/talks/regina_dugan_f
<a href="mailto:rom_nach_20_glider_to_humming_bird_dr_one/up-next.pup-next.p



Why is our universe fine-tuned for life?

Available at: https://www.ted.com/talks/brian greene why is our universe fine tuned for life?langua ge=en

Brian Greene shows how the unanswered questions of physics (starting with a big one: What caused the Big Bang?) have led to the theory that our own universe is just one of many in the "multiverse."



The fascinating physics of everyday life

Available at: https://www.ted.com/talks/helen_czerski_fun_home_experiments_that_teach_you_physics?language=en
Physicist Helen Czerski presents various concepts in physics you can become familiar with using everyday things found in your kitchen.



We need nuclear power to solve climate change

Available at: https://www.ted.com/talks/joe_lassiter_we_n
https://www.ted.com/talks/joe_lassiter_w



COMPLETE

PiXL Gateway Transition. Please see additional materials.

