Year 11: Physics

Topics not fully covered as part of GCSE.

Торіс	Text book pages	Freescience videos	BBC Bitesize	Seneca	Kerboodle quizzes
P13 Electromagnetic waves	190 - 201	https://www.freesciencelesson s.co.uk/gcse-physics-paper- 2/waves/	https://www.bbc.co.uk/bit esize/topics/zcwkgdm	https://app.senecale arning.com/classroo m/course/fe56ca00- 05aa-11e8-9a61-	P13 Kerboodle quizzes set
P14 Light	202 - 213	https://www.freesciencelesson s.co.uk/gcse-physics-paper- 2/waves/	https://www.bbc.co.uk/bit esize/topics/zcwkgdm	01927559cfd5/sectio n/0ea7b6b0-0823- 11e8-9af8- abc41ec56055/sessi	P14 Kerboodle quizzes set
P15 Electromagnetism	214 - 231	https://www.freesciencelesson s.co.uk/gcse-physics-paper- 2/magnetism/	https://www.bbc.co.uk/bit esize/topics/z39ry4j	on Use the topic numbers at the left	P15 Kerboodle quizzes set
P16 Space	232 - 243	https://www.freesciencelesson s.co.uk/gcse-physics-paper- 2/space-physics/		of the screen to access topic 6.4 onwards	P16 Kerboodle quizzes set

Physics AQA A level preparation summer 2021

AQA Physics GCSE A level transition worksheet (attached).

Senaca Learning

https://app.senecalearning.com/classroom/course/eb1a286f-2cf3-486d-a591-5494d8b256c7/section/6254010a-c9e2-477d-a457-2605b09d8af6/session

Isaac Physics GCSE to A level transition – skills

A series of questions to develop your skills. Please not that Isaac doesn't provide answers, you have to keep perservering!

https://isaacphysics.org/gameboards#gcse_alevel_transition_skills

General good stuff:

A great physics communicator is Richard Feynman. His books include:

- Surely you're joking Mr Feynman
- What do you care what other people think
- QED

There's a great documentary on iPlayer entitled "The joy of finding things out" and I'd also read his paper explaining energy https://www.feynmanlectures.caltech.edu/I_04.html

Others to consider are:

- The First Three Minutes Steven Weinberg
- A Brief History of Time Stephen Hawking If you don't fancy this you may like to try a Briefer History of Time which is more up to date. It's also apparently much easier to read.
- In Search of the Big Bang John Gribbin

If you want to prep for the Astrophysics option we do in Y13 try Universal: A Guide to the Cosmos by Brian Cox.

On Prime or Youtube you'll find some great documentaries by the Royal Institute, Jim al Khalili or Brian Cox.

Examples include:

• Brian Cox: GCSE physics brought down to Earth

https://www.youtube.com/watch?v=enSXh4YY9Ws&t=1596s

• How physics can revolutionise biology

https://www.youtube.com/watch?v=wwgQVZju1ZM&list=PLbnrZHfNEDZzxswBf5WhzbIDTInJOgCIP&index=68

• The world according to physics:

https://www.youtube.com/watch?v=gKrjOD3ZeO0