Tollbar MAT
Sixth Form College

Tollbar MAT
Family of Academies

SUBJECT: Physics

If you are interested in studying this subject at A Level, please see below for a range of things that you can do to help you bridge the gap between GCSE and A Level, and make a flying start when you join us.

A Level Specification that we use	**OCR B Advancing Physics**
3 to Read - Recommended Reading	**GCSE Notes on Hooke's Law and motion from Physics as well as material science from Chemistry.** **The following Bitesize has revision note on GCSE topics relevant to the A-Level course. Knowledge of electric circuits, explaining motion, radioactive materials and matter should be good prior to starting the A-level course.** **More advanced reading: Six Easy Pieces by Richard Feynman**
5 to Watch - Documentaries and Films	**Documentary: Chernobyl on Sky Atlantic – Be aware there are some graphic scenes. Details the Chernobyl disaster and links to radioactive materials.** **Documentary: Particle Fever on Netflix** **This documentary introduces the large hadron collider.** **Film: The Martian** **Proposes the question, can life be sustained on Mars? Also links to gravitational fields and escape velocity.** **Film: Everest and/or Documentary: Extreme Everest with Ant Middleton – Be aware there may be some upsetting scenes**

	Both tell the story of climbing Everest. Links to atmospheric pressure. **Documentary: "Cosmos: A Spacetime Odyssey" (2014)**
2 to Browse - Useful Websites for general research	**The following website has some good notes that link to GCSE content you have learnt and introduce A-Level** **https://www.physicstutoronline.co.uk/alevelphysicsnotes/** **Nasa website has interesting articles on many space topics:** **https://www.nasa.gov/**