



A Level Physics



Task	Details	Points
Careers	Research a career that requires a physics A-level and write a 200 word summary of your findings	5pts
Stephen Hawking	Watch The Theory of Everything (2014) and write a 200 word review	5pts
Einstein and Eddington	Watch Einstein and Eddington (2008), the story of Einstein's general theory of relativity, and his relationship with Eddington. Write a 200 word review	5pts
Engineering	Compare the difference between a general or specialist engineering degree for at least two universities and write an A4 factfile explainer	5pts
The World According to Physics	Read " <i>The World According to Physics</i> " By Jim Al-Khalili and write a 300 word review	10pts
Why don't things fall up?	Read ' <i>Why don't things fall up?</i> ' by Alom Shaha and write a 300 word review	10pts
Particle standard model	Research the history of the standard model of particles. Create a poster/mind map that summarises the key moments in detail.	10pts
Headstrong: 52 Women Who Changed Science—And the World	Read ' <i>Headstrong: 52 Women Who Changed Science—And the World</i> ' by Rachel Swaby and write a 300 word review	10pts
Thing Explainer: Complicated Stuff in Simple Words	Read ' <i>Thing Explainer: Complicated Stuff in Simple Words</i> ' by Randall Monroe and write a 300 word review	10pts
Brief Answers to the Big Questions	Read ' <i>Brief Answers to the Big Questions</i> ' by Stephen Hawking and write a 300 word review	10pts

Research	Find an inspiring physics-related online lecture or article, and share your findings with your teachers and fellow students in the form of a 5 minute powerpoint based presentation.	15pts
Science museum	Visit the Science Museum and write an article (750 + words) on your highlights to share with lower school; this should focus on what would be best suited for each key stage group and how it links to the science learnt at school.	15pts
Mentoring	Complete the Isaac Physics mentoring scheme to the level of the first award. https://isaacscience.org/pages/isaac_mentor	20pts
Research	Produce a 1000 word piece of research on a physics related topic of your choice not covered in your A level, to include proper referencing of your sources.	20pts
Olympiad	Complete a British Physics Olympiad past paper (paper 1) and fully self assess. Choose a question to explain to your class from the front.	20pts