Step Up to

A Level Physics

Please complete one line from the task box below. All students must complete the middle box.

Write a 300 word account of the work which led to the award of a Nobel prize in Physics: https://www.nobelprize.org/prizes/lists/all-nobel-prizes-in-physics/	Research the work of a physicist whose work interests you and prepare a 300 word review of their key contributions.	Investigate the contribution of physics to military technology and prepare a 300 word description. Ideas include: RADAR; principles of flight and artillery ranging.
Create a leaflet explaining the important contributions of Physics to everyday life, intended to be given out to Y9 pupils considering Triple Science as an option subject.	**Use the A Level practical glossary (first link below) to produce a resource (e.g. mind-map, flashcards) to help learn the definitions.**	Write a 300 word review of an article from: https://iopscience.iop.org/journal/2058-7058 Include an overview of the physics covered in the article.
Choose a sub-section of the A Level Physics 'Specification at a Glance', from sections 2-5 and prepare a 300 word summary of its content: https://www.aqa.org.uk/subjects/physics/a-level/physics-7408/specification/specification-at-a-glance	Create a timeline of the key discoveries connected with particle physics. Include the GCSE subatomic particles and information on quarks, leptons and neutrinos.	Describe an experiment to investigate the range of a projectile launched at different angles.

Useful resources/websites

- https://www.aqa.org.uk/resources/science/as-and-a-level/teach/subject-specific-vocabulary
- https://www.aqa.org.uk/subjects/physics/a-level/physics-7408/specification
- https://isaacphysics.org/gameboards#gcse_alevel_transition_skills

Suggested books/reading list

- 17 Equations that Changed the World, Ian Stewart
- Our Accidental Universe, Chris Lyntott
- Seven Brief Lessons on Physics, Carlo Rovelli
- Physics of the Future, Michio Kaku