

Snappy first sentences can be quite impactful

~~A universe without Mathematics and Physics would not exist. The fundamental interactions...~~

~~My enthusiasm for Mathematics and Physics comes from the fact that they are both used to further our~~

~~understanding of the universe and have applications in all other areas of science. My main area of interest in~~

~~Physics is particle physics as this tells us how fundamental parts of our universe interact with each other. I aim~~

~~The newer fields such as X, Y, Z also excite me as they to improve my knowledge of science in fields such as particle physics, plasma physics, and nuclear fusion as~~

~~these are new areas of physics and, with research, could lead to great improvements in our knowledge of how~~

~~the world works. I would like to learn more about plasma and fusion as further research in these fields could~~

~~have practical applications capable of revolutionising the ways in which we produce electricity, making~~

~~production far more efficient, safe and less damaging to the world.~~

~~Behind all revolutionary Physics is mathematical basis. I thoroughly enjoy this process of maximising the In Mathematics, I enjoy learning new, more efficient methods of answering questions and then applying them to~~

~~efficiency of mathematical methods and then applying this theory to physical concepts. solve equations. I believe that I would not be able to properly understand Physics without first understanding the~~

~~underlying Mathematics, and that applying new mathematical knowledge to solve real world issues is one of the most important reasons for me to study both subjects. In school, I am learning modules from all branches of~~

~~Mathematics and have started independently teaching myself an additional Further Mathematics module to~~

~~expand my knowledge of mathematics beyond my school's selection of modules. As well as this, I am attending~~

~~lessons in preparation for a STEP Mathematics exam. I enjoy both the challenges associated with teaching~~

~~myself more maths for the additional module, and the ways in which STEP questions require me to apply my AS~~

~~level mathematics in ways not tested by the syllabus.~~

~~I am interested in the extent to which Physics can apply Mathematics to problems in the real world, and use~~

~~observations to make discoveries based on the Mathematics behind experiments that were performed, such as~~

~~the size of the nucleus of an atom, as discovered in Rutherford's scattering experiment. Outside of lessons, I~~

~~have travelled to CERN to visit the Large Hadron Collider in order to learn about the experiments performed~~

~~there, and have attended a presentation at Newcastle University about the applications of Mathematics in areas~~

~~such as game shows. I have also received a Bronze award in the UKMT Senior challenge. I completed the~~

~~questions in the Cambridge Chemistry challenge and completed a written test as part of the challenge,~~

~~achieving a copper award.~~

~~Furthermore, I have helped my school in Year 7 and Sixth form open days, answering parents' questions and~~

~~talking to prospective pupils about Mathematics, Physics and Chemistry. Outside of school, I am a black belt in~~

~~Taekwondo and have previously coached people who were new to the sport. I have also been a member of the~~

~~Air Training Corps, where I completed the Bronze Duke of Edinburgh award. Whilst planning for the Duke of~~

~~Edinburgh award, I was responsible for organising the route that would be taken, making sure that we would~~

~~finish on time and that we would walk the correct distance, and planning the routes that would be taken should~~

~~something go wrong on the expedition. I also helped organise fundraising events such as Remembrance Day~~

~~coffee mornings. Being a part of the ATC taught me leadership skills, punctuality and the ability to organise~~

~~myself and a group. I have also taught myself guitar and bass, and currently play as part of a band with friends.~~

~~After university, I would like to continue learning Physics, studying either fusion or particle physics, and look~~

~~forward to being a part of future research.~~

~~Concluding sentence could convey more passion and doesn't have to be about future prospects~~

~~Thread soft skills into the extracurricular paragraph frequently rather than adding them all at the end. I've~~

~~added some skill ideas for you as suggestions.~~