

SCIENCES / MATHEMATICS

Ever since I can remember, I have sought to find answers to the questions, 'How?' and 'Why?' particularly in the context of understanding the elements in the world around me. So it was inevitable that when given a choice I elected to study the Sciences and Mathematics at school. Fuelled by an enthusiasm for the curriculum these have been the subjects that I have excelled in. I am fascinated in how things are constructed and work at both the molecular and macroscopic level. I hope to develop these interests at university by studying engineering.

Through studying Mathematics I have gained advanced arithmetic skills as well as being able to work through equations logically. The study of Physics has taught me how objects in the world interact with one another from quanta to space. I have learned how to apply my maths skills to everyday problems. By studying Chemistry I have acquired an understanding into how many important reactions and chemical processes work and how they are applied in industry. Biology has helped me to realise how scientific breakthroughs and advances impact the world and our lives.

Despite my passion for science described above I have many other interests. I have studied the violin since the age of seven and have now become a proficient player. I play in my school orchestra and symphony orchestra, the Pembrokeshire Schools Orchestra and the Pembrokeshire Schools Chamber Orchestra. Sport, physical activities and working within the community are also areas of interest. These interests have been nurtured by participation in the Duke of Edinburgh Award. To date I have completed the Bronze and Silver awards and I am about to complete the Gold. Last summer I travelled to the Isle of Mull, where I completed my Gold expedition. This was a fantastic experience and gave me a huge sense of achievement. It developed my team building and planning skills as well as testing me physically. I have also completed a Gold Duke of Edinburgh residential course in Snowdonia, where I undertook new activities such as canoeing on the sea, abseiling and rock climbing. This was a valuable experience meeting new people and developing team and leadership skills.

I enjoy sport tremendously. In my spare time I love to watch and follow many different sports. Formula One motor racing is my favourite because the advanced technologies rely on cutting edge engineering. Football, tennis, cricket, rugby and cycling are also examples of sports I enjoy watching. I play badminton regularly at a local club and cycle with the local cycling club. I have taken part in a number of time trials on my bike. I also play tennis with my friends. In addition to the physical and psychological benefits associated with sport, there is also a social aspect that I enjoy.

I have undertaken voluntary service for the last three years by helping the Tenby Junior Schools Orchestra. My role has been a varied one and has helped me develop planning skills in thinking for others much younger than myself. I am the head prefect in school after I was elected by the pupils and teachers. I have found this opportunity rewarding and for me being given this responsibility is an indication that the school management and my fellow pupils trust my judgement. I have also participated in the school anti-bullying 'Chips' scheme since entering the sixth form which means I can be approached by younger pupils to provide help in cases of bullying and harassment supporting them with problems they might be experiencing. I have tasted the wider world of work by waiting at tables and working in the kitchens of a local restaurant. I have also helped at a local boarding kennels. I see a degree in engineering as a pathway to a fulfilling career, utilising my attributes and making a positive impact on our world.