

I am highly literate scientifically, mathematically, technologically and culturally because I...

a...have an awareness of how science, mathematics and technology shape our environment

Writing the petition that I mentioned in section e gave me an opportunity to learn more about the project. Now I am attending the progress meetings and am doing some work as work experience. The project aims to install EV charging points, a Solar PV array and an experimental high efficiency vertical axis wind turbine. This will give locals somewhere to charge their cars and hopefully encourage others to purchase EV's and to think more about their carbon footprint. The project that I am now involved with is a new experimental vertical axis wind turbine and solar panels that will charge a battery that will then charge some Electric vehicles.

b...make well-founded mathematical judgements

I have won multiple awards from my teachers in the mathematics department which is called 'Mathmagician of the month' which I received for outstanding progress and effort in maths.

c...identify and understand the role that mathematics plays in the world

I completed a work experience at Arup, a Civil Engineering firm where I learned how to do 3D modelling of a real building and what calculations are behind the construction and design of a hydroelectric dam and solar array that they were constructing in the UAE

d...successfully take the initiative to develop innovative school-based or external technological systems and processes

A technological system is defined as a set of interconnected components that has been connected together to fulfil a particular function without further human design input. My Design and Technology coursework that I completed in 2020 did exactly that, I went above and beyond to design an automated system that used a solar powered pump to irrigate plants at set times of the day in the summer months for my grandparent's allotment.



e...am willing to engage in science-, mathematical- and technology-related issues, as a reflective citizen

After a lot of negative views and misunderstanding I started a petition to gather the names of people that supported a sustainable energy project that is planned for my village. I collected almost 100 signatures in just 2 days along with over 1,00 views and was showed to the Parish Council to show that there was people in support of the project.

f...have been exposed to a breadth of texts which develop my general knowledge

Over the past few years I have been subscribed to several STEAM related magazines that have helped broaden my general knowledge and give me information I can use in my A-Level Geography exams, such as BBC Focus magazine.

g...appreciate the systems of beliefs, values, attitudes, customs, institutions and social relations relevant to global developments and am able to treat all people respectfully and in a suitable manner appropriate to their culture

Over my time at the school I have completed the Philosophy and Ethics curriculum and been on multiple trips. (Attached is a document which outlines all that I have taken part in) I have learned about ethical issues and how these relate to multiple religions such as Islam and Christianity.