



# USING CREATIVITY, MATHS AND SCIENCE TO SOLVE PROBLEMS

When people ask the question 'what is engineering' my answer is always to use creativity, maths and science to solve problems and improve our lives. It doesn't matter which field of engineering you work in – this is always going to be true.

Right now, for the first time in our life-time, our lives have been changed forever by a pandemic. Engineers from a variety of disciplines are helping with the fight against COVID-19, from Formula-1 teams helping to develop prototype ventilators to small local businesses developing valves to convert snorkel masks in to ventilators. There are also negative pressure isolation pods, monitoring robots and of course the race to equip healthcare providers with sufficient PPE. Something we ourselves are very proud to be involved with.

Your next task as an aspiring engineer is to get involved with tackling the effects of COVID-19. We as a society are currently experiencing issues and situations that we have never been subjected to before. Now is the time to take action and develop innovative solutions to these problems.

Finally, you may be wondering why I value the word 'creativity' and place it before maths and science? Simply because greatest engineers are also the most creative!

Follow this link to find your next task:

<https://equalengineers.com/covid-19-challenge/>

In April 2020, the Department of Engineering at Trinity C of E High School joined the effort to provide face shields to the NHS and other care providers amid the COVID-19 pandemic. Using our skills and expertise we were able to 3D print face shield frames and laser-cut the visors.

Although we have only played a small part it's wonderful to know we have contributed to solving a problem and improving people's lives.



*"I am so grateful to you for making this. You are protecting my life, my family, my colleagues and the patients and relatives I work with."*

