

## Motor Vehicle Maintenance and Repair Operations

The students are working towards a certificate in this subject that will help them understand how a motor vehicle works, is repaired and a career in the motor industry. They will use a wide range of equipment within the school workshop learning on our own motorcycles, quads and car. Throughout the course they will be choosing the correct tools for removing and replacing items, checking the service condition and replacing if necessary. Towards the end of and as part of their coursework they will be carrying out a full service of one of the vehicles.

## Motor Vehicle Road Control

The students will learn in the safe environment of the school grounds how to either ride a motorcycle or a quad. They will be instructed on how to carry out pre ride safety checks before any ride which they must then do themselves. They must at all times when riding wear PPE; motorcycle helmet, gloves, boots and high visibility jacket. They will learn how to control their vehicle in a wide range of scenarios by the use of the internal roads from the very first time they sit on it right up to a practical riding test as used by the DSA.

## Rules of the Road

This course runs hand in hand with the Motor Vehicle Road Control where the students will learn about the Highway Code. The students will learn about the different types of road traffic signs, their meanings, use and the consequences both personal and in law if these signs are ignored.

## Crest Award

We are now running the Crest award via STEM (Science, Technology, Engineering, Maths) for the students in KS 4 and KS 5. The school has a battery powered kit car purchased from Greenpower that the students race at various courses against other schools throughout the country and coming from as far away as Poland, France, South Africa and America. The aim of the course as the name Greenpower suggests is to promote the use of alternative energy, in our case battery power. One group of students are looking at ways of improving the aerodynamics and have identified areas which can be improved, they made several changes. The second group are involved in the battery power and again have made changes to improve the power consumption during the race and by constructing a "safe" cage for storage of the batteries. The students record their work which is then examined by STEM and the appropriate award given.