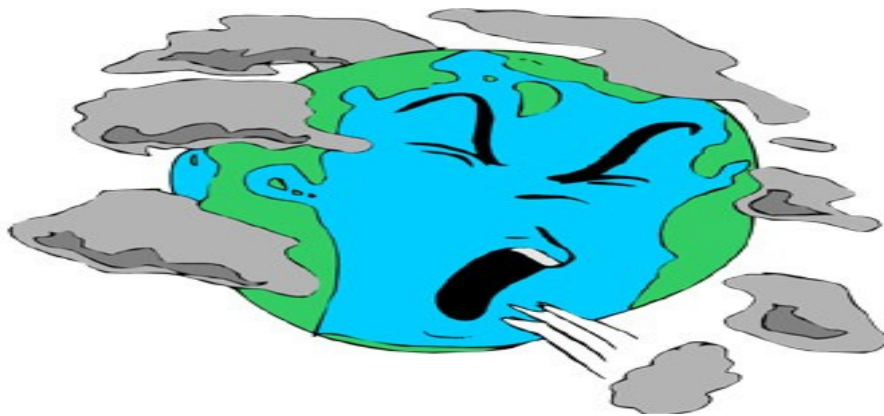


Year 8

Pollution



Science Covered in this project

Science Covered	Completed
habitats	
food chains/webs	
inherited/environmental variation	
acids/alkalis/pH	
chemical reactions	
metals/carbonates	
burning fuels	
solutions	
renewable energy	
fossil fuels	
environmental costs of food	
food choices	
atmospheric gases	
numbers of atoms in molecules	
polymers	
plastic vs. recyclable bags	
recycling metals	
reducing heat loss	
conserving energy	
Sankey diagrams	
fertiliser	
pesticides	
toxins & food chains	
metal carbonates & acid	
weathering	
acid rain	
ozone	

This work is the most basic and can be covered in levels 3-6

This work is more complex and is level 4-6

These are the most challenging topics and will be covered at levels 4-7

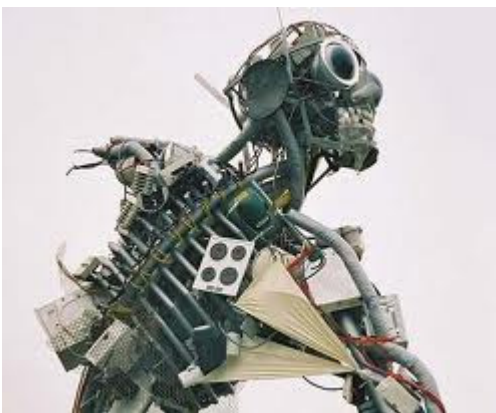
Project Aim

You live in a world where fuel prices are rising, oil reserves are running out and the land, air and seas are badly polluted by the activities of the human race. You have been tasked by the government to understand the science of pollution, how we can tackle it and the effect of pollution on our environment.

You will learn about the causes of pollution, how many of the things we use daily are made from limited supplies of crude oil and the effect on living creatures. The government would like you to develop a series of ideas on how to reduce the effect of pollution on our planet.

Over this half term your teacher will share with you all of the materials covered on the previous page. You should tick each box when you covered the work in your lessons. This work will help you to have the knowledge needed to complete your assignment. The assignment will be due to handed in during the last week of each half term. If you do not have access to the internet, remember the Academy has homework clubs that run during the week and the library is available after school for all students.

Full details of the assignment will be posted in the Science area of the Academy website.



Your Assignment

The Academy is committed to raising standards of literacy across all areas of the curriculum, so you should remember to use the VCOP strategies you have met in your lessons.

At any time you can ask your teacher for advice and guidance on how to complete your project assignments.

You have this half term to complete the following:

- Draw a picture of Freebrough of the Future. In your drawing you should show all the ways of reducing energy loss from the building, increasing recycling and the use of Green technologies. Think about where our energy and water will come from, and what we can do to cut our pollution.
- Use the internet or books to write a newspaper article about the impact of plastic on the environment and the problems with recycling items like mobile phones and washing machines.
- Research the WEEE man statue at the Eden Project in Kent. Using information that you have found, design (on paper, computer or a model) your own statue, showing what it is made from. Estimate in your lifetime how many of each household appliance you may get through.

It is expected this assignment will take you between 6-10 hours over the course of this project