

Pre-C6th Home Study

UNIVERSAL PROJECT FOR YEAR 11 HOME LEARNING - CHEMISTRY

THE BRIEF

OUT OF THE FOLLOWING TOPICS, CHOOSE THE ONE WHICH INTERESTS YOU THE MOST:
NANOCHEMISTRY, PLASTICS, MEDICINAL DRUGS, RENEWABLE ENERGY.
BECOME AN EXPERT IN YOUR CHOSEN TOPIC!



CREATE A QUESTION

WHAT IS NANOCHEMISTRY AND WHAT ARE ITS APPLICATIONS?

WHAT NEW MATERIALS ARE BEING PRODUCED THAT COULD REPLACE PLASTIC? HOW ARE BIODEGRADABLE PLASTICS BEING PRODUCED? CAN PLASTICS BE TURNED INTO OTHER USEFUL SUBSTANCES SUCH AS ENGINE OIL (YES THEY CAN - FIND OUT MORE!)?

HOW ARE DRUGS SYNTHESISED (MADE)? WHAT IS THE LINK BETWEEN WILLOW BARK AND ASPIRIN? WHAT CHEMICALS ARE USED AS ANAESTHETICS? WHAT CHEMICALS ARE USED AS PAIN RELIEVERS? WHAT CHEMICALS ARE USED IN THE TREATMENT OF CANCER? WHEN WERE THESE DRUGS 'DISCOVERED'/FIRST USED?

WHAT ARE THE FORMS OF RENEWABLE ENERGY? WHICH COUNTRY USED THE LEAST NON-RENEWABLE ENERGY? PROPOSE WHICH RENEWABLE ENERGY SOURCES WOULD BE BEST FOR DIFFERENT AREAS OF THE UK.

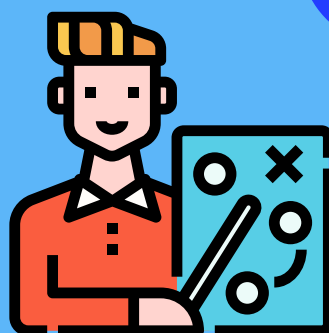


CREATE YOUR PRODUCT

A POWERPOINT OR USE CANVA TO PRODUCE A POSTER OR MAGAZINE. CREATE A 10 PAGE MAGAZINE ARTICLE! ALTERNATIVELY MAKE A VIDEO OR A QUIZ FOR YOUR FAMILY.

A FEW SUITABLE RESEARCH SITES
[HTTPS://WWW.NEWSCIENTIST.COM](https://www.newscientist.com)
[HTTPS://WWW.SCIENTIFICAMERICAN.COM](https://www.scientificamerican.com)
[HTTPS://WWW.THEGUARDIAN.COM](https://www.theguardian.com)
[WWW.INDEPENDENT.CO.UK/NEWS](http://www.independent.co.uk/news)
[HTTPS://WWW.NATURE.COM](https://www.nature.com)
[HTTPS://WWW.ICR.AC.UK](https://www.icr.ac.uk)
[HTTPS://WWW.BRITANNICA.COM](https://www.britannica.com)
[HTTPS://WWW.RENEWABLEUK.COM](https://www.renewableuk.com)

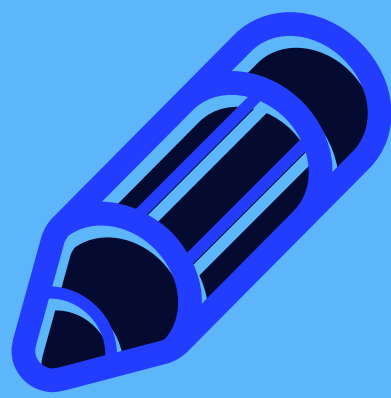
STEP
01



WHAT TO INCLUDE

USE DATA (IN THE FORMS OF GRAPHS OR TABLES) TO SUPPORT YOUR WRITTEN WORK.
USE KEY SCIENTIFIC TERMS (DEFINING THEM WHERE NECESSARY)
CONSIDER THE FINANCIAL AND ENVIRONMENTAL ASPECTS OF YOUR TOPIC

STEP
02



STEP
03



DO YOUR RESEARCH

USE THE LINKS BELOW TO FIND RELEVANT INFORMATION FOR YOUR QUESTION. MAKE NOTES, USE MINDMAPS AND TABLES
MAKE SURE YOU KEEP A LIST OF THE SOURCES USED .

STEP
04

STEP
05

