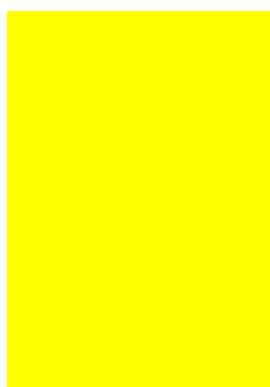
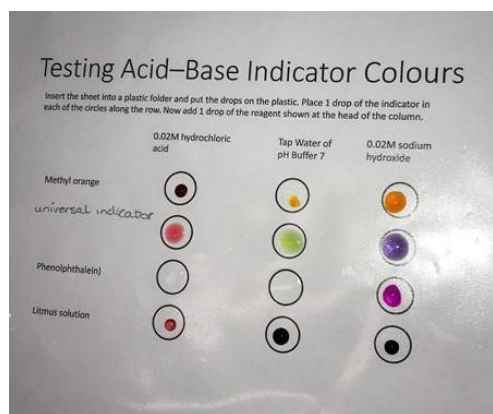




Senior Cycle Chemistry at Coola Post Primary



Practical based subject

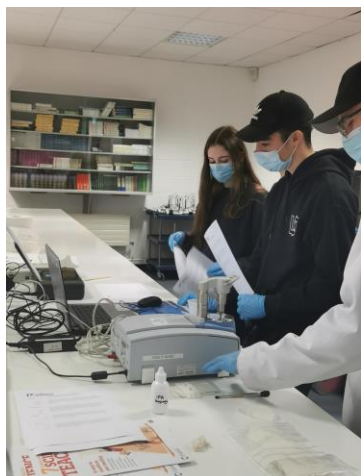




Three science labs



Spectrometry in a Suitcase



Forensics Workshop in the IT Sligo



Shane, Lisa and Darragh, runners up at ISTA Sligo Senior Science Quiz

Topics covered:

- periodic table and atomic structure
- chemical bonding
- stoichiometry and formulas and equations
- acids and bases
- volumetric analysis
- thermochemistry
- organic chemistry
- rates of reaction
- chemical equilibrium
- Water chemistry.
- industrial chemistry
- atmospheric chemistry

The aims of the syllabus are:

- To stimulate and sustain students' interest in, and enjoyment of, chemistry
- To provide a relevant course for those students who will complete their study of chemistry at this level
- To provide a foundation course in chemistry for those students who will continue their studies in chemistry or in related subjects
- To encourage an appreciation of the scientific, social, economic, environmental and technological aspects of chemistry and an understanding of the historical development of chemistry
- To illustrate generally how humanity has benefited from the study and practice of chemistry
- To develop an appreciation of scientific method and rational thought
- To develop skills in laboratory procedures and techniques, carried out with due regard for safety, together with the ability to assess the uses and limitations of these procedures
- To develop skills of observation, analysis, evaluation, communication and problem solving.

Assessment:

3 hour terminal exam 30% mandatory experiments 70% chemistry theory. Students must answer 8 out of 11 questions.



SCIENCE & RESEARCH

It's predicted that in the next few years, 1 in 4 jobs will have been created by science and research - leading to 140,000 new science jobs by the end of 2018.

CAREER PATHS

- Research Scientist
- Chemist
- Forensic Scientist



MEDICINE & HEALTHCARE

Graduates with degrees in healthcare are the most likely to find employment and often have the highest average annual pay.

CAREER PATHS

- Doctor
- Nurse
- Pharmacologist



FAST CONSUMER GOODS

This industry lives up to its name since it is constantly changing and evolving, which also means it has one of the highest rates of career progression!

CAREER PATHS

- Quality Controller
- Food Scientist
- Market Researcher

WHERE CAN CHEMISTRY TAKE YOU?



ENERGY & UTILITIES

By 2023, it's estimated that this industry's workforce will need to increase by more than 200,000 people due to renewable power introducing a wider range of jobs.

CAREER PATHS

- Petroleum Engineer
- Geochemist
- Mudlogger



ENGINEERING

42% of the engineering workforce in the UK is over the age of 45. This means there will be a huge demand for young engineers in the decades to come!

CAREER PATHS

- Chemical Engineer
- Civil Engineer
- Mechanical Engineer



MANUFACTURING

The manufacturing sector employs around 2 million people and accounts for 8% of employment in the UK. That's a lot of jobs!

CAREER PATHS

- Food Technologist
- Manufacturing Engineer
- Manufacturing Manager