



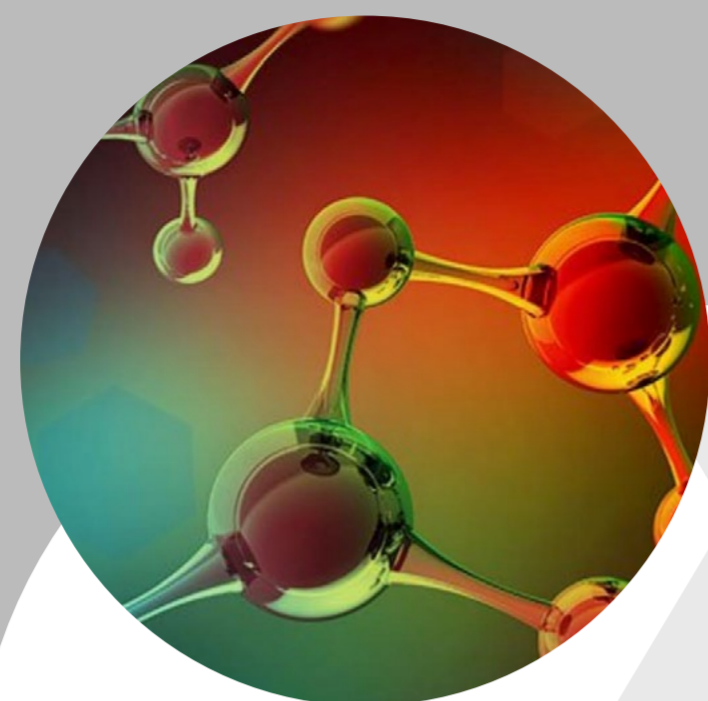
Chemistry Pros6

Mastery in Year 13

- Demonstrate knowledge and understanding of scientific ideas, processes, techniques and procedures.
- Apply knowledge and understanding of scientific ideas, processes, techniques and procedures in a theoretical or practical contexts and when handling data
- Analyse, interpret and evaluate scientific information, ideas and evidence, including in relation to issues, in order to make judgements and reach conclusions or develop and refine practical design and procedures.

Mastery in Year 12

- Demonstrate knowledge and understanding of scientific ideas, processes, techniques and procedures.
- Apply knowledge and understanding of scientific ideas, processes, techniques and procedures in a theoretical or practical contexts and when handling data
- Analyse, interpret and evaluate scientific information, ideas and evidence, including in relation to issues, in order to make judgements and reach conclusions or develop and refine practical design and procedures.



TRANSITION METALS AND AMINO ACIDS, PROTEINS AND DNA

What is the link between biology and chemistry in everyday life of proteins or DNA?



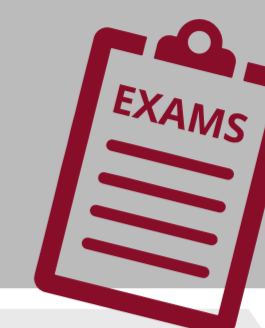
ACIDS AND BASES AND ORGANIC SYNTHESIS (CHROMATOGRAPHY) AND NMR SPECTROSCOPY

What is the significance of analysing different substances?



REVISION AND COMMENCEMENT OF EXTERNAL EXAMS

TRANSITION



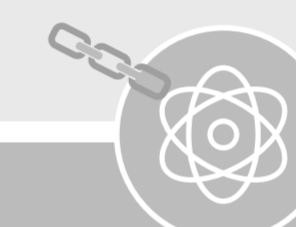
THERMODYNAMICS AND ORGANIC CHEMISTRY (AMINES AND POLYMERS) AND AROMATIC CHEMISTRY

What does the energy in a lattice tell us about the bonding and reactivity of that compound?



RATE EQUATION AND OPTICAL ISOMERISM AND ORGANIC CHEMISTRY

How does structure and bonding affect rate?

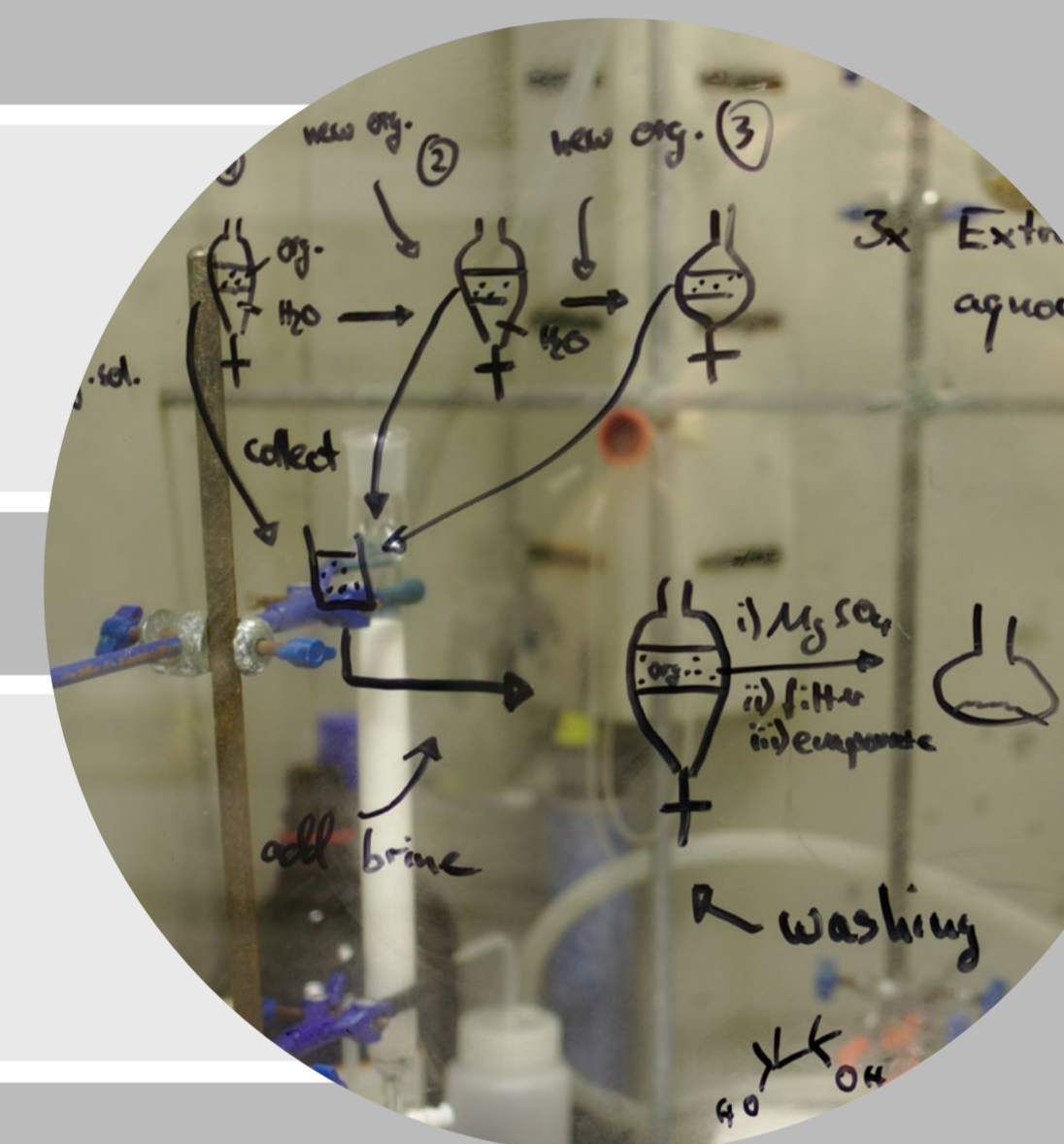


OXIDATION, REDUCTION (REDOX) EQUATIONS AND ORGANIC CHEMISTRY (CARBOXYLIC ACIDS AND DERIVATIVES)

How are weak acids synthesised and what compounds do they form when they react?

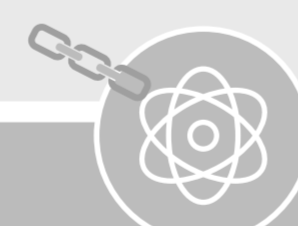


YEAR
13



PERIODICITY AND ORGANIC ANALYSIS

How are chemicals analysed?



ENERGETICS AND ORGANIC CHEMISTRY (ALCOHOLS)

Are there different types of alcohols and of what value are they?



CHEMICAL EQUILIBRIA AND ORGANIC CHEMISTRY (HALOGENOALKANES)

How can we determine the heat content of different substances?



YEAR
12

BONDING, ATOMIC STRUCTURE AND AMOUNT OF SUBSTANCE

Does the bonding between elements have any significance in determining the amount of substances that react?



AMOUNT OF SUBSTANCE, KINETICS AND ORGANIC CHEMISTRY (ALKANES)

How fast do particles react and what are the importance of carbon compounds?

