Y13 – Chromatography and Spectroscopy

Looked on the open drive for additional work

Asked my teacher for guidance

Confidence rating

Stick this checklist into your yellow book at the beginning of the top	ic. Tick off the topics as you cover	them.	
In this module you are expected to be able to		In Notes	Revised
Interpret TLC diagrams and calculate R _f values			
Interpret GC chromatograms, including use of calibration curves and	d use of retention times		
Identify the following organic functional groups with simple chemical	al tests:		
 Alkenes Haloalkanes Phenols Carbonyl compounds Aldehydes Primary and secondary alcohols Carboxylic acids 			
Use ¹³ C-NMR to			
 Predict the number of carbon environments in a molecule Identify the different chemical environments present from chemical shift. Suggest possible and impossible structures 			
Use ¹ H-NMR to			
 Identify the number of proton environments in a molecule Identify the different types of proton environment from chemical shift. Calculate the relative number of protons in each environment from peak area traces. Calculate the number of neighbouring protons for an environment from the splitting pattern. Identify the structure of a molecule 			
Predict ¹³ C or ¹ H NMR spectra for a molecule			
Explain the use of tetramethylsilane in NMR spectroscopy			
Explain the need for deuterated solvents in NMR spectroscopy			
Identify and state the test to prove the presence of O-H and N-H proton peaks.			
Pre-test Evaluation			
I have			
Updated my yellow book notes			
Ensured I understand all of my notes			

I'm doomed!

I am the BOSS!