

# Y13 – Nitrogen Compounds Revision Checklist

Stick this checklist into your yellow book at the beginning of the topic. Tick off the topics as you cover them.		
In this module you are expected to be able to...	In Notes	Revised
Explain why amines behave as bases and describe reaction of amines and acids		
Describe how amines can be prepared from haloalkanes, showing appropriate mechanism of reaction, and how aromatic amines can be produced by reduction of nitrobenzene.		
State the general formula for an $\alpha$ -amino acid and predict reactions with acids and alkalis.		
Recognise primary and secondary amides, and describe the chemicals they could be made from.		
Define optical isomerism, identify chiral centres, optical isomers, and draw 3D representations of chiral compounds.		
Write equations for the formation of, identify the repeat unit of, and identify the reactants used to make, addition polymers, polyesters and polyamides.		
Predict the products of hydrolysis of polyesters and polyamides.		
Describe how C-C bonds can be formed using $\text{CN}^-$ nucleophile.		
Describe the hydrolysis and reduction of nitriles.		
Describe Friedel-Crafts reaction of benzene with acyl chlorides and haloalkanes.		
Identify different functional groups in a complicated molecule, and predict their reactions.		
Devise multi-step syntheses from one chemical to another.		

## Pre-test Evaluation

I have...	
Updated my yellow book notes	
Ensured I understand all of my notes	
Looked on the open drive for additional work	
Asked my teacher for guidance	
Confidence rating	I'm doomed!    --    -    =    +    ++    I am the BOSS!