

# SYLLABUS UPDATE

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<b>AS/A LEVEL CHEMISTRY SYLLABUS 9701</b>
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Please note the following amendments to the 2014 syllabus.

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**3. Chemical bonding**

(h) understand, in simple terms, the concept of electronegativity and apply it to explain the properties of molecules such as bond polarity (3h), the dipole moments of molecules (3j), the behaviour of oxides with water (9.1j) and the acidities of chlorine-substituted ethanoic acids (10.6c)

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**10.7 Nitrogen compounds**

(a) describe the formation of alkyl amines such as ethylamine (by the reaction of ammonia with halogenoalkanes; the reduction of amides with  $\text{LiAlH}_4$ ; the reduction of nitriles with  $\text{LiAlH}_4$  or  $\text{H}_2/\text{Ni}$ ) and of phenylamine (by the reduction of nitrobenzene with tin/concentrated  $\text{HCl}$ )

(h) (i) describe amide hydrolysis on treatment with aqueous alkali or acid  
(ii) describe the reduction of amides with  $\text{LiAlH}_4$