SALTERS ADVANCED CHEMISTRY "CHECK YOUR NOTES" : DESIGNER POLYMERS

Print the list below and tick the box supplied when you have covered the topic in your notes. Most of the points are covered in the *Chemical Ideas*, with supporting information in the *Storyline* or *Activities*. However, if the main source of information is the *Storyline* or an *Activity*, this is indicated.

1	The historical development of condensation polymers (polyamides and polyesters) (Storyline DP2 and DP3).	
2	How to distinguish between addition and condensation polymerisation.	
3	Predicting the structural formula of the condensation polymer formed from given monomer(s) and vice versa.	
4	The hydrolysis of esters.	
5	Be able to recognise members of the following homologous series: amines, amides.	
6	The use of systematic nomenclature to name primary amines.	
7	The characteristic properties of the amino group, including basic nature and acylation.	
8	The reaction of a primary amine and an acyl chloride to produce an amide.	
9	The hydrolysis of an amide (Activity DP2.2).	
10	The procedure for purifying a solid organic product (Activity DP2.2).	
11	The properties of condensation polymers in terms of intermolecular attractions.	
12	The effect of temperature changes on polymers.	
13	The relationship between the properties of polymers and their molecular structures.	
14	The ways that chemists can modify the properties of a polymer by physical and chemical means (including the use of co-polymers), to meet particular needs.	
15	The use of given data to design a polymer for a particular purpose.	
16	The disposal and recycling of polymers.	