

SALTERS ADVANCED CHEMISTRY
"CHECK YOUR NOTES" : WHAT'S IN A MEDICINE?

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	Be able to recognise members of the following homologous series: phenols, acyl chlorides and esters.	<input type="checkbox"/>
2	The use of systematic nomenclature to name carboxylic acids and esters.	<input type="checkbox"/>
3	The acidic nature of carboxylic acids.	<input type="checkbox"/>
4	The reaction of alcohols with carboxylic acids to form esters.	<input type="checkbox"/>
5	The characteristic properties of phenols, including acidic nature, test with iron(III) chloride solution, reaction with acyl chlorides to form esters.	<input type="checkbox"/>
6	The increasing relative strengths as acids of alcohols, phenols and carboxylic acids.	<input type="checkbox"/>
7	The technique of heating under reflux for reactions involving volatile liquids (Activities WM2 and WM5.1).	<input type="checkbox"/>
8	The technique of thin-layer chromatography (t.l.c.) and the interpretation of the results (Activity WM2).	<input type="checkbox"/>
9	How the following forms of spectroscopy can be used for the elucidation of molecular structure: mass spectroscopy (m.s.) and infrared spectroscopy (i.r.)	<input type="checkbox"/>
10	The interpretation of mass spectra (molecular ion and significance of the fragmentation) for salicylic acid and simple compounds containing a limited range of functional groups (hydroxyl, carbonyl, carboxylic acid and ester groups).	<input type="checkbox"/>
11	The interpretation of infrared spectra for salicylic acid and simple compounds containing a limited range of functional groups (hydroxyl, carbonyl, carboxylic acid and ester groups).	<input type="checkbox"/>
12	How more effective medicines can be obtained by modifying the structure of existing medicines (Storyline WM5).	<input type="checkbox"/>
13	The procedures used in developing and establishing the safety of a medicine (Storyline WM8 and Activity WM8).	<input type="checkbox"/>