

Map of the unit: *What's in a Medicine?*

Laboratory-based practical work is indicated by (P), activities involving IT skills are indicated by (IT) and those developing study skills by (S).

ACTIVITIES		CHEMICAL STORYLINE	CHEMICAL IDEAS
WM1	The origins and development of the modern pharmaceutical industry (IT)	WM1 THE DEVELOPMENT OF MODERN IDEAS ABOUT MEDICINE	
WM2	Extraction of salicylic acid (P)	WM2 MEDICINES FROM NATURE	
WM3	Investigating the chemistry of the –OH group in various environments (P)	WM3 IDENTIFYING THE ACTIVE CHEMICAL IN WILLOW BARK	13.2 <i>Alcohols and ethers (revision)</i> 13.3 Carboxylic acids and their derivatives 13.4 The –OH group in alcohols, phenols and acids 13.5 Esters (part b)
WM4	Interpretation of the mass spectrum of salicylic acid	WM4 INSTRUMENTAL ANALYSIS	6.4 Infrared spectroscopy 2.1 <i>A simple model of the atom (revision)</i> 6.5 Mass spectrometry
WM5.1	A preparation of aspirin (P)	WM5 THE SYNTHESIS OF SALICYLIC ACID AND ASPIRIN	
WM5.2	Using spectroscopy		
WM6	An aspirin assay (P)	WM6 DELIVERING THE PRODUCT	
		WM7 THE MIRACULOUS MEDICINE	
WM8	Which product should a pharmaceutical company develop?	WM8 DEVELOPMENT AND SAFETY TESTING OF MEDICINES	
WM9	Check your notes on What's in a Medicine? (S)	WM9 SUMMARY	