

OCR Gateway GCSE Chemistry

C10 Organic reactions

Name _____ Class _____ Date _____

Lesson	Aiming for 4		Aiming for 6		Aiming for 8	
C10.1 Reactions of the alkenes	I can state a definition of an alkene.	<input type="checkbox"/>	I can draw the displayed structural formulae for the first four alkenes.	<input type="checkbox"/>	I can predict the word and balanced symbol equations to describe reactions between alkenes and hydrogen, water (steam), or a halogen.	<input type="checkbox"/>
	I can name the first four alkenes.	<input type="checkbox"/>	I can draw the displayed structural formulae for the products of the addition reactions between alkenes and hydrogen, water (steam), or a halogen.	<input type="checkbox"/>	I can compare and contrast the reactivity of alkanes and alkenes.	<input type="checkbox"/>
	I can state the product of a combustion and an addition reaction of an alkene.	<input type="checkbox"/>	I can predict the word and balanced symbol equations for the complete combustion of an alkene when the number of carbon atoms is given.	<input type="checkbox"/>	I can predict the general formula of an alkene.	<input type="checkbox"/>
C10.2 Structures of alcohols, carboxylic acids, and esters	I can recognise the functional group in an alcohol and a carboxylic acid.	<input type="checkbox"/>	I can classify an organic compound as an alcohol a carboxylic acid, or an ester.	<input type="checkbox"/>	I can predict the structure for primary alcohols or carboxylic acids when the number of carbon atoms is given.	<input type="checkbox"/>
	I can name the first four primary alcohols and the first four carboxylic acids.	<input type="checkbox"/>	I can draw the structural and displayed formulae for the first four primary alcohols and the first four carboxylic acids.	<input type="checkbox"/>	I can suggest a general formula for a homologous series.	<input type="checkbox"/>
	I can name ethyl ethanoate from its formula.	<input type="checkbox"/>	I can draw the structural and displayed formulae for ethyl ethanoate.	<input type="checkbox"/>	Can suggest why an organic acid is not an alcohol even though it contains an -OH functional group.	<input type="checkbox"/>

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10.3 Reactions and uses of alcohols	I can state that fermentation can be used to make ethanol.	<input type="checkbox"/>	I can describe fermentation to make aqueous solutions of ethanol, including a word equation.	<input type="checkbox"/>	I can explain why solutions of ethanol have a pH of 7.	<input type="checkbox"/>
	I can list some chemical properties of the first four alcohols.	<input type="checkbox"/>	I can describe the reactions of alcohols, including using word equations.	<input type="checkbox"/>	I can describe complete combustion reactions of a range of alcohols using balanced symbol equations.	<input type="checkbox"/>
	I can recognise the formula and structure of ethanol and state some of its uses.	<input type="checkbox"/>	I can explain the relationship between ethanol and ethanoic acid.	<input type="checkbox"/>	I can plan an investigation to determine the relative energy transferred to the surroundings by the combustion of	<input type="checkbox"/>
C10.4 Carboxylic acids and esters	I can recognise a carboxylic acid from its name or formula.	<input type="checkbox"/>	I can describe why carboxylic acids are acidic.	<input type="checkbox"/>	I can explain, using ionic equations, why carboxylic acids are weak acids.	<input type="checkbox"/>
	I can list some chemical properties of carboxylic acids.	<input type="checkbox"/>	I can use word equations to describe the reactions of carboxylic acids with metal carbonates and with alcohols.	<input type="checkbox"/>	I can predict the products of the reactions of a range of carboxylic acids with metal carbonates and with alcohols.	<input type="checkbox"/>
	I can describe an ester and state some uses of this class of compounds.	<input type="checkbox"/>	I can describe how to make an ester.	<input type="checkbox"/>	I can explain the term volatile in terms of molecular forces.	<input type="checkbox"/>