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Carboxylic Acids

Question paper 1

Level	IGCSE
Subject	Chemistry
Exam Board	Edexcel IGCSE
Module	Single Award (Paper 2C)
Topic	Organic Chemistry
Sub-Topic	Carboxylic Acids
Booklet	Question paper 1

Time Allowed: 12 minutes

Score: /10

Percentage: /100

Grade Boundaries:

A*	Α	В	С	D	E	U
>85%	77.5%	70%	60%	55%	50%	<50%

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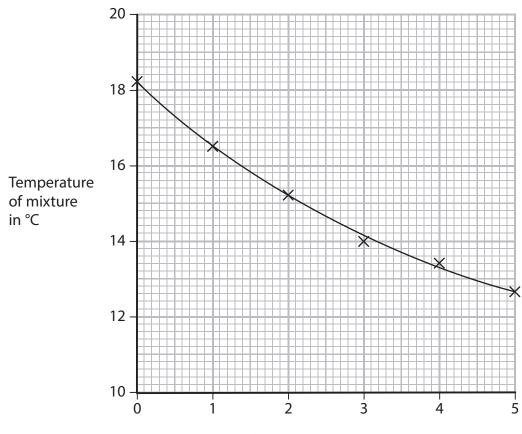
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1 A teacher asked her students to suggest some experiments that could be done using chemicals found in the home. One student planned an experiment to measure the temperature change when baking soda is added to vinegar.

She wrote this plan.

- pour 100 cm³ of vinegar into a polystyrene cup
- weigh out five separate 1 g portions of baking soda
- measure the temperature of the vinegar
- add 1 g of baking soda to the vinegar and stir
- record the new temperature
- add the other portions of baking soda, stirring and recording the temperature after each portion is added

The graph shows her results.



Mass of baking soda added in grams

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(a	(a) The student said that the reaction in her experiment was not complete.				
	How does the graph support her statement?	(1)			
(b	o) The student used a polystyrene cup rather than a glass beaker.				
	Why is it better to use a polystyrene cup?	(1)			
(c	c) Vinegar contains ethanoic acid. Baking soda contains sodium hydrogencarbonate	•			
	The student found this equation for the reaction:				
	$CH_3COOH + NaHCO_3 \rightarrow CH_3COONa + H_2O + CO_2$				
	(i) There is no colour change during this reaction.				
	Suggest one observation, other than the change in temperature, that could be made during the reaction.				
	be made during the reaction.	(1)			
	(ii) The compound CH ₃ COOH is an acid and the compound CH ₃ COONa is a salt.				
	The graph shows that the temperature goes down during the reaction.				
1	Use this information to state the two types of reaction occurring.	(2)			
I					
2					

