

P1H Edexcel PiXL Mark Scheme November 2014

Question	Answer	Additional Guidance
1 (a)	From left to right: radio/infra-red/x-rays (3)	In that order Allow 1 mark for each correct, maximum 3
1 (b) (i)	Infra-red (1)	
1 (b) (ii)	Microwaves (1)	
1 (c)	Any 2 from: • Cancer • Kill cells • Burns to skin • Snow blindness	
	(2)	
1 (d)	Reflects certain wavelengths (1) of visible light (1)	
1 (e)	A gamma (1)	Score 0 marks if more than one box is crossed
(Total for Question 1 = 10 marks)		
2 (a) (i)	Arrows going away from ray box (1)	
2 (a) (ii)	Emerging ray drawn correctly parallel to the incident ray (1)	
2 (a) (iii)	C Refraction (1)	Score 0 marks if more than one box is crossed
2 (a) (iv)	Nothing/it would go straight through (1)	
2 (b)	• Fish drawn to the left of the apparent position (1) • Ray drawn from actual fish to surface and then refracted away from the normal (1) • To the eye of the fisherman (1)	Allow any position left The directional arrows are essential for maximum of 3 marks
(Total for Question 2 = 7 marks)		
3 (a) (i)	C expanding (1)	Score 0 marks if more than one box is crossed
3 (a) (ii)	Distance from earth/how far away the galaxy is (1) Speed it is travelling at (1)	
3 (b)	Cosmic microwave background radiation (1)	
3 (c)	B Why was the Universe created? (1)	
3 (d)	Frequency = Wave speed / wavelength (1) $3 \times 10^8 / 20$ (1) 1.5×10^7 or 15 000 000 (1)	Correct answer gains 3 marks with no working
3 (e)	Sound gets quieter (1) because pitch/frequency gets lower (1) due to the Doppler effect (1).	
(Total for Question 3 = 11 marks)		
4 (a)	C (1) as it uses the most energy (1)	
4 (b)	• Advantage – more efficient so uses less energy/costs less to run/contributes less to greenhouse gases (1) • Disadvantage - making new fridges uses up	Need to link into efficiency to gain the advantage mark

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Tao Wei



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web $m \times c \times \Delta t$ equation 1 where m is the total mass of the solution solute plus solvent c is the specific heat of the solution and Δt is the observed temperature change the specific heat of the solution is generally assumed to be the same as that of *guided inquiry designing the ideal hand warmer* - Dec 27 2022

web the heat of reaction ΔH_{soln} is written after the products in units of kJ mol^{-1} rxn for example sodium hydroxide dissolves exothermically releasing 44.2 kilojoules per mole dissolved this process is represented as $\text{NaOH (s)} \rightarrow \text{NaOH (aq)}$ $\Delta H_{\text{soln}} = -44.2 \text{ kJ mol}^{-1}$ rxn write equations to similarly represent the dissolving process for

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web hand warmers are usually placed inside the gloves to keep your hands warm the heat keeping your hands warm is formed as a result of an exothermic reaction which occurs in a small packet hand warmers have 5 main ingredients in them salt carbon polypropylene vermiculite water and iron

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web background the hand warmers are filled with sodium acetate click the metal disc and you will notice the liquid changes

state and becomes a solid in the process heat is released the sodium acetate is a supersaturated solution

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web oct 9 2021 sodium acetate coin or other small piece of metal plastic bags seal the coin inside a small bag place this bag inside a larger bag containing supersaturated sodium acetate get this by dissolving as much sodium acetate as possible in hot water this chemical hand warmer is reusable

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web the goal of my experiment and research is to evaluate the various number of compounds to be used as hand warmers and locate the ones that can raise the temperature to 20 degrees celsius in 100 g water and costs as little as possible

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web in this lab you are challenged to use chemistry to determine which ionic compound makes the best hand warmer in this experiment you will collect data that will allow you to calculate the heat of solution ΔH_{soln} or the amount of energy released or absorbed in kJ mol of the substance being dissolved

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web mar 4 2014 contains water the hand warmer is struck in a manner that ruptures the inner pouch releasing the ionic salt into the water of the outer pouch the salt dissolves and the water warms this type of hand warmer tends to produce a more vigorous heat than the dry powder type of hand warmer but does not produce heat for quite as long

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web lab investigation in today s experiment you will design and execute an experimental procedure to determine which of three ionic compounds is most suitable for use in a hand warmer the three compounds you will use is determined by the group number you are assigned the ideal hand warmer