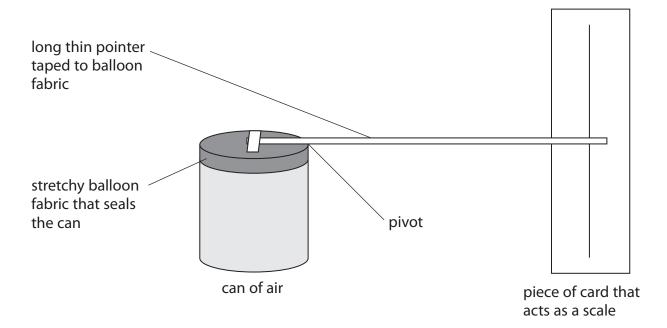
(3)

10 Aneroid barometers are used to measure air pressure.

A student makes a model aneroid barometer as shown.



(a) (i) The balloon fabric is attached to the can to stop the air escaping.

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	(ii) The balloon fabric is tight and flat. The pointer is horizontal as shown.	
	Explain what happens to the different parts of the model when the atmospheric pressure increases. [You may assume that the temperature remains constant.]	(4)
 		(4)
	(iii) Suggest two ways that the model could be altered to increase its sensitivity to changes in atmospheric pressure.	
		(2)
2		

(b) The student heats the air in her can by pla (i) State how this affects the reading show	
(ii) Explain why this happens.	(2)
	(Total for Question 10 = 12 marks)