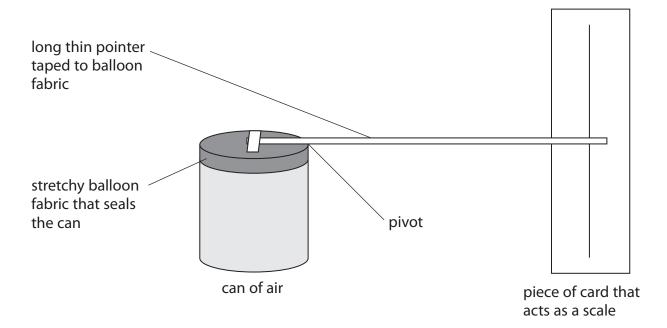
(3)

**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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(1	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)
(1	*** C	
	iii) Suggest two ways that the model could be altered to increase its sensitivity to changes in atmospheric pressure.	(2)
	changes in atmospheric pressure.	

(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)