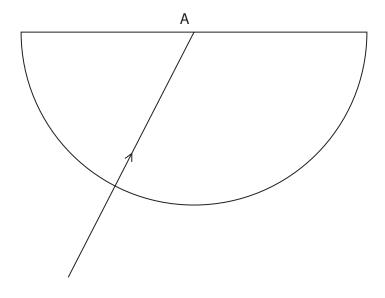
11	A light ray can undergo total internal reflection.	
	(a) (i) State two uses of total internal reflection.	(2)
1		
2		
	(ii) Describe the conditions required for total internal reflection to occur.	(2)

(b) The diagram shows a light ray entering a glass block from air and then incident on the flat side of the block at position A.



28

(iii) Measure the angle of incidence. angle of incidence =	
(iii) The critical angle of the glass block is 40° Continue the path of the light ray after it reaches position A.	
(iii) The critical angle of the glass block is 40° Continue the path of the light ray after it reaches position A.	
(iv) State the equation linking critical angle and refractive index.	(
	(
(v) Calculate the refractive index of the glass block.	()
refractive index =(Total for Question 11 = 11 r	