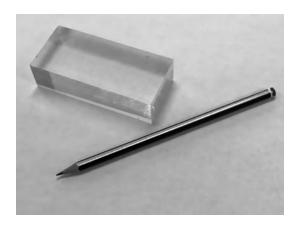
6 A student does an experiment to determine the refractive index of a glass block.



(a) The student places the glass block on a piece of paper and draws round the block with a pencil.

Name two additional pieces of equipment the student will need for his experiment.

(2)

1_____

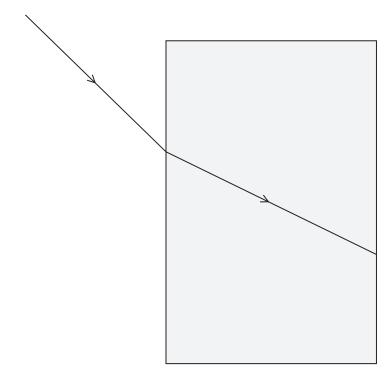
2

- (b) The diagram shows the path of a ray of light as it travels towards and then through the glass block.
 - (i) Draw the path of the ray of light when it leaves the glass block.

(2)

(ii) Draw the normal line at the point where the ray of light enters the glass block.

(1)



(2)
(1)
(2)

refractive index =

A teacher suggests that a more accurate value for the refractive index can be found using a graphical method.
Design a method to obtain a value for the refractive index of the glass block using a graph.

You may draw a diagram to support your answer.

(3)

(Total for Question 6 = 13 marks)