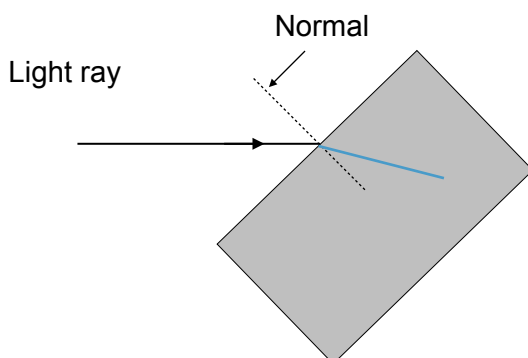


- 1 A ray of light is directed at a glass block as shown in the diagram. The normal is labelled.



- 1 (a) (i) What is the 'normal'?

[2 marks]

A line (imaginary line) which meets the interface or boundary [1]
at 90° [1].

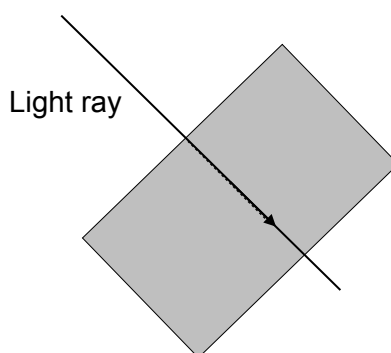
Or a line (imaginary) which is perpendicular to the interface or boundary. [2]

- 1 (a) (ii) On the diagram, show what happens to the light ray after it enters the glass block.

[1 mark]

Any line that is refracted towards the normal. [1]

- 1 (b) The light ray is shone on the glass block from a different angle.



- 1 (b) (i) Explain the direction of the light ray after it enters the glass block.

[2 marks]

The light ray hits the glass block along the normal [1]
so light ray does not change direction or does not refract. [1]

(Total 5 marks)

End