

Name	Class	Date
Your teacher may watch to see if you can:		
• make accurate measurements of angles.		

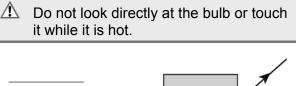
## Aim

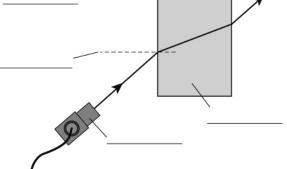
To investigate what happens when a ray of light travels through a glass block.

## **Apparatus**

- ray box
- rectangular glass
- plastic block
- pencil
- ruler
- sheet of plain paper
- 1 Label the diagram using words from the box.

air	glass	normal	ray box
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## Method

2 Fill in the gaps in these sentences, using words from the box below.

	angle	block	draw	glass	light	move	ray	ruler	
l will	find out wh	nat happens	s when a ra	y of light tra	vels from a	air into			
I will do this by shining a ray of			into	into the glass block. Before I start I					
will _		around the glass block so that I can put it back in the same plac							
I		i	it. I will mark the path of the				of light where		
it go	es into the	glass block	. I will mark	the path of	the ray wh	ere it come	s out of th	e glass	
		I will use a				to join the rays to show where			
the r	ay of light v	went inside	the glass b	lock. I will re	epeat the e	xperiment b	y changir	ig the	
		th	at the light	hits the glas	SS.				

3 Look at the lines you have drawn on your paper, then complete these sentences.

I noticed that the ray of light is refracted \_\_\_\_\_\_ (away from/towards) the normal when it goes into a glass block. The ray of light is refracted \_\_\_\_\_\_ (away from/towards) the normal when it comes out of a glass block. The ray coming out of the glass block is \_\_\_\_\_\_ (parallel/at right angles) to the ray going into the block.

## I can...

- make careful observations
- draw conclusions from my observations.