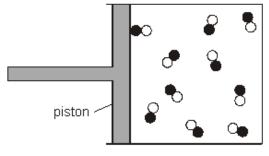
Q1. Diagram A represents a gas in a container.

The gas can be compressed by moving the piston to the right.





dia gram A

(a)	(i)	How can you tell that the substance in the container is a gas?	
			1 mark
	(ii)	How can you tell from the diagram that the gas is pure?	

(b) The piston is moved to the right as shown in diagram **B**.

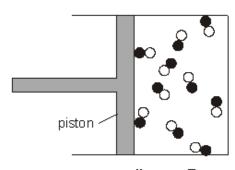


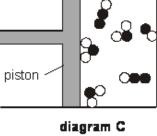
diagram B

How can you tell, from diagram B , that the pressure of the gas has increased?	

1 mark

1 mark

(c) Diagram **C** shows what happened to the molecules after the gas was compressed more.



	• • • • • • • • • • • • • • • • • • • •		
e mass of the g	gas in both diagrams B	and C was 0.3 g.	
hy did the mass	of the gas not change	when it was compressed?	
		ct chemical formula of each	
	le below with the correction in the correction is the second contraction.	ct chemical formula of each	
		ct chemical formula of each Key	
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bstance. Use th	ne key to help you.	Key	
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substance Substance	ne key to help you.	Key ● nitrogen	