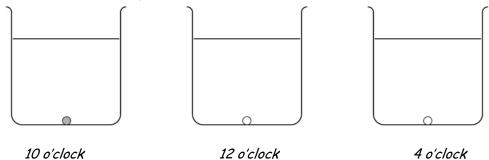
Diffusion

1 Jenna put a purple crystal into a beaker of water at 10 o'clock. She came back to look at the beaker at 12 o'clock, and again at 4 o'clock.

Colour in the beakers to show how far the purple colour would have spread at each time. The first one has been done for you.



2 Fill in the gaps in these sentences, using words from the box. You may need to use some words more than once.

The colour in Jenna's beaker spread out by ______. The water

_____ are moving around all the time. They bump into

_____ from the purple crystal, and _____

around. The purple gradually ______ out through the

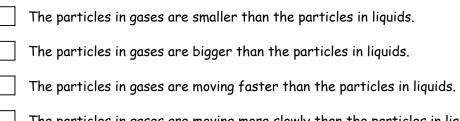
diffusion move particles spreads water
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- 3 Mr Collins has got some new aftershave. Danny can smell it as soon as Mr Collins comes into the lab. Ramesh does not smell it until two minutes later.
 - **a** Who is sitting nearest to the lab door?

b Explain your answer

them

Diffusion happens faster in gases than in liquids. Why does this happen? Tick the correct 4 explanation.



The particles in gases are moving more slowly than the particles in liquids.