

## What do you know about gases? Part 2

Each of the six experiments tells you something about gases.

- Follow the instructions on the cards with the experiments.
- Try each experiment and answer the questions.
- When you have done all six, go back to your group and work on your answers in more detail.
- Prepare to present your answers.

Dissolving a tablet  Where was the gas before the tablet was dropped in the water?	Squashing air in a syringe  What happens when you let the plunger go? Explain why this happens.  Why is it so difficult to squash the air?  What would happen if you could keep on squashing the air?
Perfume diffusion	Cooling air in the freezer
Why does the perfume diffuse through the air? Why does it take time to diffuse? How could the time be reduced?	Why does the balloon shrink?  Why does the balloon expand again in the warm room?  What would happen to the air in the balloon if you cooled it down as far as possible
Putting out a lighted candle  Why did the lighted candle go out?	(to -273 °C)?  Inflating a balloon  Where was the gas before the reaction started?
Where did the gas come from to make this happen?	What happens to the mass reading on the balance? Explain why.
Why can this gas be 'poured' like a liquid, but others can't?	What would happen to the mass if the balloon was removed? Explain why.