

**Cards****Instructions for experiment circus****Dissolving a tablet**

Fill the beaker half-full with water.

Add the tablet.

When the reaction is complete, wash the solution away and rinse the beaker.

**Putting out a lighted candle**

Cover the base of the conical flask with the calcium carbonate chips.

Put the candle in the base of the beaker.  
Light the candle.

Add about 100 cm<sup>3</sup> of dilute hydrochloric acid (**Irritant**) to the calcium carbonate. Use the scale on the flask to help.

Let the reaction continue for about one minute.

Carefully lift the flask and pour the gas made in the reaction into the beaker.

The solution can be poured down the sink. The chips can be rinsed and re-used.

**Inflating a balloon**

Measure 50 cm<sup>3</sup> of sodium carbonate solution.  
Pour this into the conical flask.

Measure 50 cm<sup>3</sup> of dilute hydrochloric acid (**Irritant**). Add this to the conical flask.

Quickly fit a balloon over the neck of the flask.

Place the flask on a balance.

Allow the reaction to proceed.

When the reaction is complete, wash the solution away and rinse the flask.

**Perfume diffusion**

Two people are needed to do this.

Measure 10 m across the room or along a corridor.

Have one person standing at each end of the 10 m, one holding the 'perfume', the other a timer.

Squirt the perfume into the air and start the timer simultaneously.

Stop the timer when the smell has travelled 10 m.

**Squashing air in a syringe**

Pull back the plunger of a plastic syringe.

Push the tip of the syringe against your hand.

Push the plunger in as far as you can, keeping your hand against the tip.

Let the plunger go.

**Cooling air in a freezer**

You need to be quick to do this!

Take a balloon out from the freezer.

That's all there is to it!