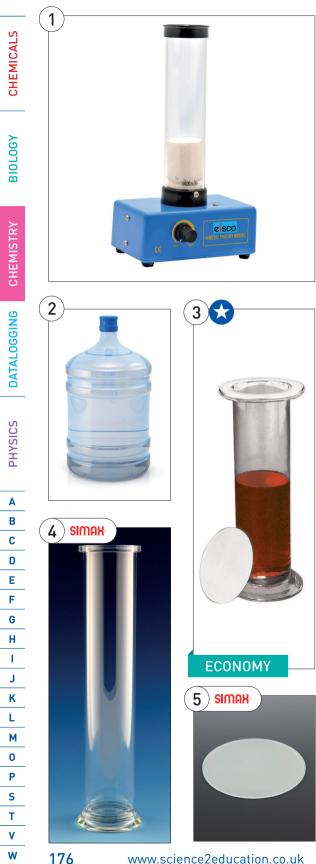
# Chemistry – Gas & Pressure



## 1. Kinetic Theory Model

This model provides an analogue form visual representation of molecular movement in gases. A piston, in a wide perspex tube, is vibrated by a low-voltage electric motor contained in a box supporting the tube. Tiny metal spheres, simulating gas molecules, are propelled upwards in a tube by the piston's vibrations. The movements of the spheres are seen to be random both in direction and extent. The motor is provided with a speed control. Higher speeds give more extensive movements of the spheres. The electric motor requires a 6V DC power supply capable of providing a current of 2.5A. For demonstrations to larger groups, illumination from the side and a black background are recommended.

Code	Pack	Price
EDU038	Each	£40.85

## 2. Whoosh Bottle

A 19L polycarbonate bottle for use in the 'Whoosh Bottle Demonstration'. The demonstration itself is visually impressive, showing how even small amounts of fuel can release a huge amount of energy. A mixture of alcohol and air are added to the bottle and then ignited. The result is a rapid combustion reaction, often accompanied by a dramatic 'whoosh' sound and flames. Different types of alcohol can be demonstrated to show differing effects: methanol and ethanol produce a very quick 'whoosh' where as using propan-1-ol or propan-2-ol leads to a slightly slower reaction. For safety reasons these cannot be carried out consecutively in the same bottle.

#### Only the bottle is supplied (without cap). The alcohol must be purchased separately.

Code	Pack	Price
X21955	Each	£15.07

# 3. Gas Jar

GAS5000: Neutral borosilicate glass, cylindrical 200 x 50mm inside diameter with base.

GAS5002: Circular sheet neutral borosilicate glass cover for gas jar. Ground one side, 75mm diameter.

Code	Description	Pack	Price
★ GAS5000	Gas jar	Each	£3.95
GAS5002	Gas jar cover	10	£6.97

# 4. Simax<sup>®</sup> Gas Jar

Simax gas jar, without cover, borosilicate glass.

Code	Dims, h x Ø, mm	Pack	Price
JAR2060	200 x 50	Each	£9.95
JAR2062	250 x 50	Each	£11.40
JAR2064	200 x 60	Each	£12.79
JAR2066	300 x 60	Each	£13.67

## 5. Simax<sup>®</sup> Gas Jar Lids

Gas jar lids, soda-lime glass, frosted on one side.

Code	Ø, mm	Pack	Price
JAR2070	75	Each	£3.88

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