

University of Dundee

Royal Society of Chemistry Forensic Chemistry @Home Kit

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Crime Lab Chemistry - Kit List for Schools

This kit list contains equipment for a class size of 30 where the kit is shared between groups of two.


The three black pens in this kit have been tested and shown to have different colour profiles.

You can substitute any of these for another water-soluble black pen as long as they produce visually different results from the chromatography experiment.

Smell pots:

Item	Additional information
45 Opaque smell pots/ shaker tubes - 3 pots per group	Students should not be able to see inside the pot. However, small holes should be present in the top/lid to smell the contents inside. 
Dried Lavender	These scents can be replaced with other such as ground coffee beans.
Dried Orange	We selected orange and lemon as scents because they are both citrus fruits with distinctive scents.
Dried Lemon	

Chromatography experiment

Item	Additional information
30 strips of Chromatography paper	You can also use strips of kitchen roll or coffee filter paper if unable to purchase chromatography paper.
15x Berol Handwriting pen (Black)	

<p>15x Staedtler Lumocolor Pen Non-Permanent Fine (Black)</p>		
<p>15x PaperMate Flair Original Felt Tip Pens (Black)</p>		
<p>15x 250ml beaker</p>	<p>This item can be replaced with a glass/cup that water can be held in as long as the pencil and chromatography paper can be balanced on top as seen on the right.</p>	
<p>15x 30cm HB Pencils</p>	<p>Length of the pencil should be longer than the diameter of your beaker.</p>	
<p>15x 32mm Foldback Paper Clamp/Binder</p>	<p>We advise you use foldback clips of this size or larger. The metal loops should be large enough to fit a pencil through. This will make it much easier for students to balance their paper in your beaker.</p>	