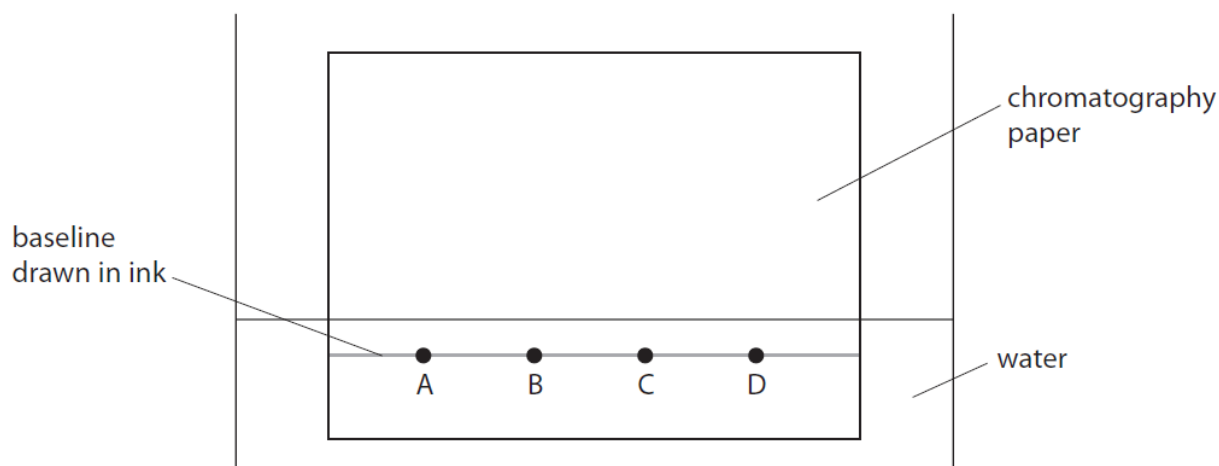


## THE TECHNIQUE OF CHROMATOGRAPHY

Paper: 1C  
Question: 4(a)

### Question

A student uses this apparatus to investigate the colours in four different inks, A, B, C and D.



(a) Explain two mistakes the student made when setting up his experiment.

(4)

### Mark Scheme

<p>Explanations that link together the following two pairs of points:</p>	
<p><b>M1</b> baseline has been drawn in ink</p>	<p><b>ACCEPT</b> not drawn in pencil</p>
<p><b>M2</b> and therefore it will interfere with /contaminate the results</p>	<p><b>ACCEPT</b> will produce other colours/will move up the paper/will get mixed up with the ink samples</p> <p><b>ALLOW</b> pencil will not interfere with the results/ pencil will not dissolve</p>
<p><b>M3</b> the water level is above the ink spots</p>	<p><b>ACCEPT</b> too high/above the baseline</p> <p><b>ACCEPT</b> the spots are under water</p>
<p><b>M4</b> and therefore the inks will mix with the water</p>	<p><b>ACCEPT</b> the inks will dissolve in the water / the inks will wash off the paper</p>