Combined Science - Chemistry - Key Stage 4

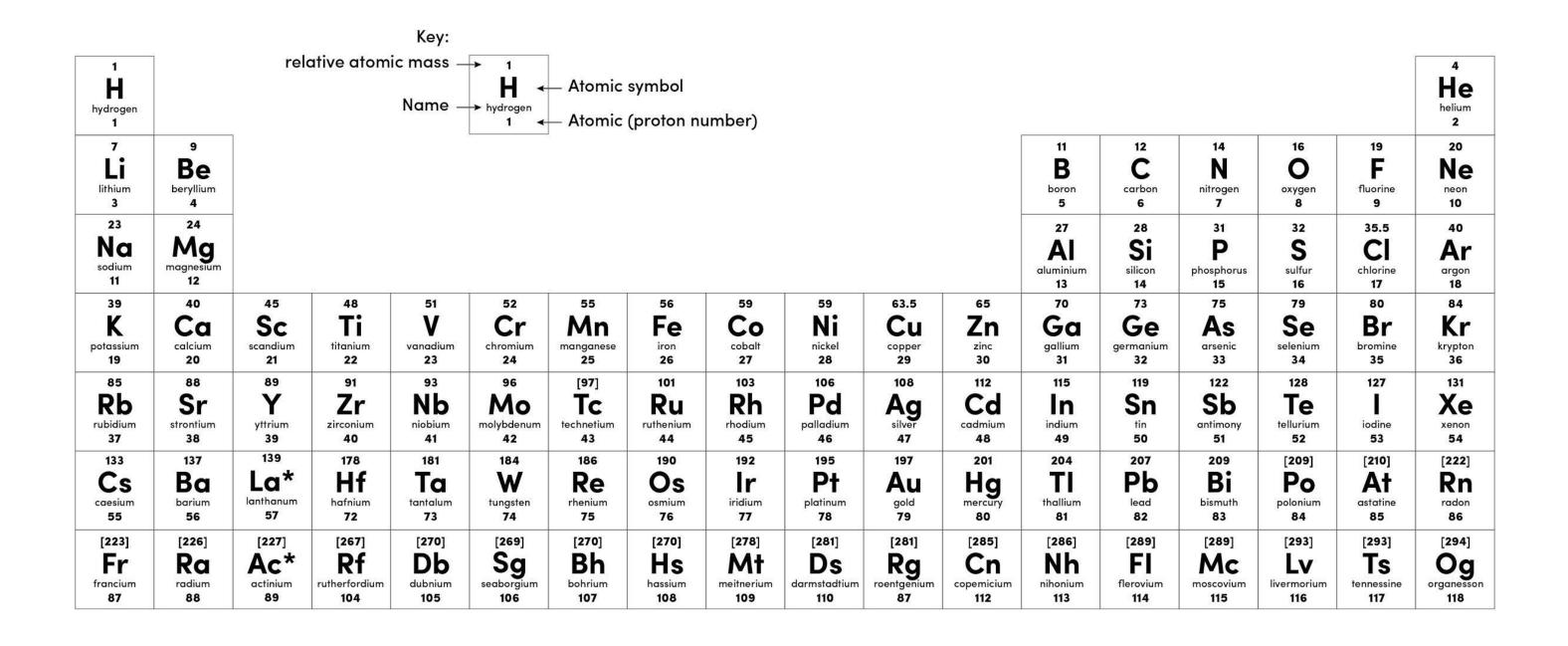
C8 Chemical Analysis

Review 1 Downloadable Resource

Mr Robbins



Periodic Table of Elements





^{*} The lanthanides (atomic numbers 58 - 71) and the Actinides (atomic numbers 90 - 103) have been omitted. Relative atomic masses for **Cu** and **Cl** have not been rounded to the nearest whole number.

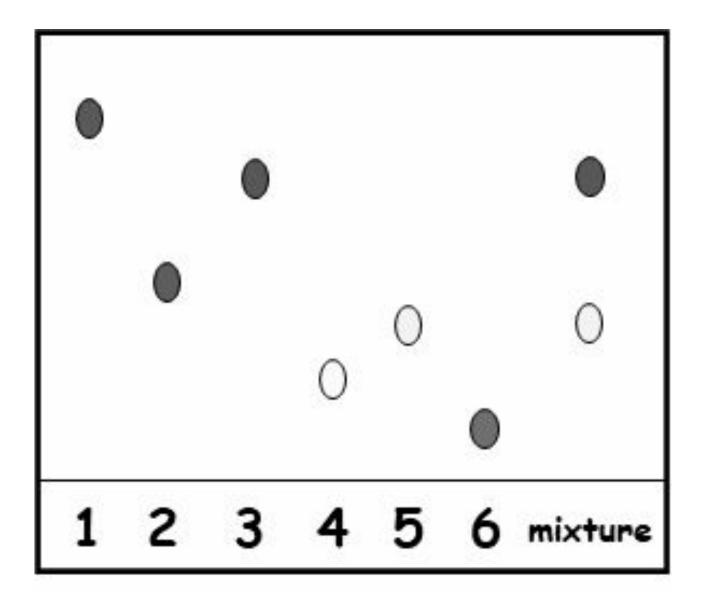
Place the following steps in the correct order

- 1. The solvent will travel up the filter paper, taking the soluble particles from the ink with it.
- 2. Place a lid on the beaker.
- 3. Draw a straight line using a pencil a few cm up from the bottom of the paper.
- 4. Submerge the filter paper into the water so that the pencil line is just above the water level.
- 5. Add the substance (e.g. ink) you want to test as a small dot on top of the pencil line.
- 6. The diffusion distance of each of the individual solutes depends on their solubility.
- 7. Add some solvent (water) to a beaker.



Independent task

- 1. How many substances are in the mixture?
- 2. Which chemicals (1-6) were used in the mixture?



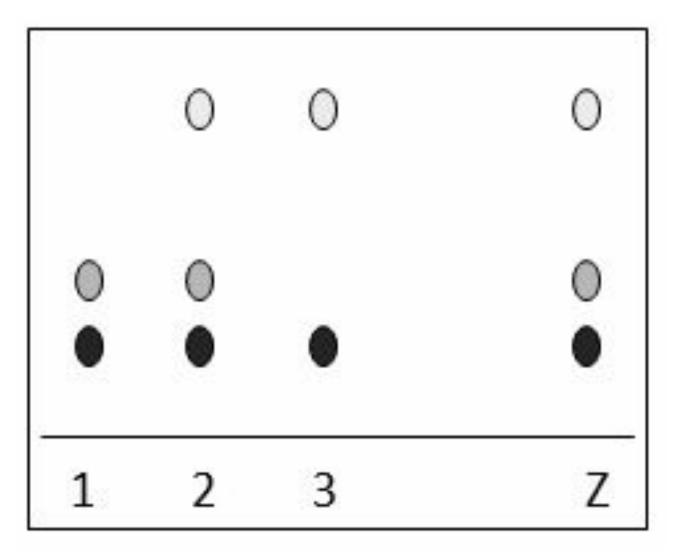
Credit [B.Littlewood]



Independent task

Chromatography is carried out on 3 pens to see which colours they contain.

- 1. Which pen number matches up to substance Z?
- 2. Which colour can be found in all 4 substances?



Credit [L.Mason]



Independent task

Gas	How to carry out the test	Describe the positive result

