**Fractional distillation (preparation details for teachers and technicians)**

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| **SAFETY** |  |
| **Universal indicator solution** | H226 Flammable liquid and vapour  H315 + H320 Causes skin and eye irritation  H335 May cause respiratory irritation  P261 Avoid breathing dust /fume /gas /mist /vapours /spray  P305+P351+P338 IF IN EYES: Rinse cautiously with water for  several minutes. Remove contact lenses, if present and easy to  do. Continue rinsing. |

**TO BUY**

Fizzy Drinks: This worked well with pink Lucozade, and various flavours of Fanta. If you want to continue this as an extension activity you could buy “diet” versions of these drinks.

**STUDENTS WILL NEED**

* 100 ml conical flask
* Tripod/stand and clamp
* 5 Test tubes/vials per group
* Test tube holder
* Heat source - hot plate or tealight (not bunsen burner)
* Fizzy drinks
* Universal indicator
* Ice
* Large beaker/container to hold ice
* Rubber bung with two holes
* Plastic/ Teflon tubing
* Thermometers
* Aluminium foil