**Rate of evaporation – student sheet**

Put a drop of propanone onto a microscope slide and observe what happens.

The conditions can be changed as shown below:

|  |  |
| --- | --- |
| **Condition** | **How achieved** |
| Warm | Warm slide in hands and hold on a flat palm. Alternatively, place the slide in warm water then dry the slide |
| Cool | Room temperature |
| Spread out drop | Spread the drop of propanone on the slide with a matchstick |
| Unspread | Drop left as one drop on the slide |
| Cool air flow | Fan with book |
| Warm air flow | Blow across drop |

|  |  |
| --- | --- |
| **Condition** | **Evaporation time (s)** |
| Unspread, cool, air movement |  |
| Unspread, cool, no air movement |  |
| Spread out, cool, no air movement |  |
| Spread out, warm, no air movement |  |
| Unspread, warm, air movement |  |
| Spread out, cool, air movement |  |
| Spread out, warm, air movement |  |
| Unspread, warm, no air movement |  |

1. Which conditions will increase the rate of evaporation?

This Practical Chemistry resource was developed by the Nuffield Foundation and the Royal Society of Chemistry.

© Nuffield Foundation and the Royal Society of Chemistry