## 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.<br>Alternatively, place the slide in warm water then<br>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



 ROYAL SOCIETY
 This resource was downloaded from

 OF CHEMISTRY
 https://rsc.li/3pwc38K

