**Common Practical Assessment Criteria - Teacher Checklist Teacher:\_\_\_\_\_\_\_ Class:\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Practical specific criteria (evidence found)** **Experiment – making Aspirin** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC1 |
| Follows the instructions carefully and independently |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC 2a & 2b & 4b |
| Produces a reasonable yield of product |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crystals have good clean appearance  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Melting point has a narrow range and varnished at 135ᴼC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Manages time and equipment successfully |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC 3a  |
| Explains why a water bath was used |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC 3b |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Works safely |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Practical specific criteria (evidence found)****Planning** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC 2a & 2b & 2d |
| Chooses a balance +/- 0.01g + reason |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Uses Salicylic Acid |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Chooses a 10cm3 measuring cylinder + reason  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mixes with ethanoic anhydride |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Add conc. H2SO4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Water bath & reason |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Filter |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes any adjustments to their method |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC 3a  |
| Assess risk and safety suggestion for: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Salicylic Acid |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ethanoic Anhydride |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Conc. H2SO4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC 5b |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Quotes 2 x sources correctly |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Practical specific criteria (evidence found)** **Experiment – Recrystallisation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC1 |
| Follows the instructions carefully and independently |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC 2a & 2b & 4b |
| Carries out recrystallisation with a good yield  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Carries out melting point correctly  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Melting point is narrow and contains 122ᴼC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC 3b |
| Works safely |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPAC 4b |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Records melting point range appropriately |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |