

| **Year 11 ATAR CHEMISTRY Name:** | |
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| Task No: | 3 |
| Task Type: | Science Inquiry: Practical |
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| Content: | Bonding and Solubility |
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| Task Description: | Compare the effectiveness of water and kerosene as solvents for solutes with different types of bonding.  Write a laboratory report.  **In class only (1 lesson practical, 1 lesson write report)** |
| Total Marks: | 16 |
| Weighting: | 6.25% |
| Due Date: |  |

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| Marking Requirement: | | Mark Allocation | Mark |
| Aim | * Aim is clear and concise | 1 |  |
| Results | * Data presented in appropriate table * Record appropriate observations or results * Include data about bonding type of each solute | 3 |  |
| Discussion | * Results summarised * Generalisations made about solubility of different bonding types in kerosene and water * Explanations refer to accepted scientific theory * Explanations include diagrams where appropriate * Explanations include appropriate scientific terminology * Discuss application of solubility to stain removal * Identify difficulties or sources of error * Suggest specific improvements | 8 |  |
| Conclusion | * Summary of findings | 2 |  |
|  | * References | 2 |  |
|  |  | Total /16 |  |