| **Narrogin SHS Year 11 ATAR CHEMISTRY Name:** | |
| --- | --- |
| Task No: | 14 |
| Task Type: | Science Inquiry: Investigation |
|  |  |
| Content: | Rates of Reaction |
|  |  |
| Task Description: | Design and conduct an investigation to determine the effect of catalysts on decomposition of hydrogen peroxide  **1 week to plan at home, 1 lesson practical, 1 lesson to writeup** |
| Total Marks: | 25 |
| Weighting: | 6.25% |
| Due Date: |  |

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| --- | --- | --- | --- |
| Marking Requirement: | | Mark Allocation | Mark |
| Aim | * Aim is clear and concise | 1 |  |
| Variables | * Independent variable is identified * Dependant variable is numerical and includes SI units of measurement * 5 controlled variables identified * 1-3 uncontrolled variables identified | 4 |  |
| Hypothesis | * Hypothesis relates independent and dependent variables | 1 |  |
| Equipment and Procedure | * All equipment listed, including sizes or types where appropriate * Procedure step by step, detailed and specific * Diagram/s scientific, neat, labelled, captioned and appropriately sized * Safety precautions are identified | 4 |  |
| Results | * Data presented in appropriate table * Record appropriate observations or results * Data presented in appropriate graph (4) | 6 |  |
| Discussion | * Results summarised * Generalisations made about catalysts and reaction rate * Explanations refer to accepted scientific theory and use appropriate terminology * Identify difficulties or sources of error * Suggest specific improvements | 5 |  |
| Conclusion | * Summary of findings | 2 |  |
|  | * References | 2 |  |
|  |  | Total /25 |  |

