**Chemistry 2.6 AS 91166** Demonstrate understanding of chemical reactivity



Writing Excellence answers to **Reaction Rate Factors – Catalyst** questions

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| **Reaction Rate Factors – Catalyst QUESTION** |
| **Question:**  A particular reaction is complete when the solution turns cloudy and the paper cross under the flask can no longer be seen. The following experiments were carried out, and the times taken for the cross to disappear recorded. Elaborate on why the reaction in **Experiment 3** occurs faster than the reaction in **Experiment 1**.  |
| **ANSWER** |
| 1. state the **collision theory** |  |
| 2. Describe the reactants in your reaction and state **which factors are the same** |  |
| 3. Describe the reactants in your reaction and state **which factor is different** (the factor affecting reaction rate) |  |
| 4. **link** the factor to the collision theory  |  |
| 5. link the reaction to **more of the collisions being successful** occurring per unit of time |  |
| 6. link to more products (name products) being formed per unit of time AND link to a faster reaction rate |  |
| 7. summarize the reaction with the **slower reaction rate** |  |
| 8. Explain that both reactions will produce the **same amount of product** eventually as they started with the same amount of reactants |  |

NOTE: The white column is how your answer would appear on your test paper so make sure you **write out complete sentences**. The grey area is just to help you structure your answer and would not appear in the question.