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| **Topic** | Collision theory | **Level** | GCSE |
| **Outcomes** | 1. To draw particle pictures to explain why changing the temperature, pressure and concentration will change the rate of a reaction. | | |

**Collision theory and particle pictures**

Using your understanding of rates of reaction can you explain the following?

1. Why does increasing the temperature of a reaction increases the rate of reaction?
2. Why does adding a catalyst increase the rate of reaction?
3. Why does increasing the concentration of a reactant increases the rate of a reaction?
4. Why does hitting your hand on the desk does not result in a reaction, despite particles colliding?

Progress: have a look at other activities that get students to understand rates of reaction

<http://www.thescienceteacher.co.uk/rates-of-reaction/>