

GCSE Chemistry C8 Rates and Equilibrium

What are we learning?	What knowledge, understanding and skills will we gain?	What does excellence look like?	What additional resources are available?
<p>How we can control and manipulate how quickly a chemical reaction takes place</p>	<p>Knowledge</p> <ul style="list-style-type: none"> • Methods for measuring rate of reaction –the reduction of reactants or the increase in products • List methods of increasing the rate of a chemical reaction • Some reactions are reversible and the symbol that represents this • Reversible reactions are exothermic in one direction and endothermic in the opposite <p>Understanding</p> <ul style="list-style-type: none"> • Selecting / evaluating methods of measuring rate of reaction • Explain why certain factors can increase or decrease the rate of a chemical reaction • Evaluation of the strengths of limitations of our abilities to alter rate of reaction • Selecting favourable conditions to push a reversible reaction in a certain direction to alter equilibrium <p>Skills</p> <ul style="list-style-type: none"> • Independently generate hypothesis that refer to the IV and DV • Make detailed predictions based on scientific theory • Identify variables with measurements and manage control variables • Write a logical method with detail on equipment resolution • Take measures to decide on repeatability and reproducibility of results • Draw complex conclusions from graphs with multiple variables and construct tangents • Draw detailed conclusions with refer to data • Suggest uncertainties in practical 	<p>Confidently calculating rate of reaction at a specific point using a tangent and understanding the difference between this calculation and that of average rate.</p> <p>Link to previous topics in explanations which may include particle theory, activation energy, naming the type of reaction studied, predicting or naming the products, balancing equations</p> <p>Extended scientific explanation on why selection of certain conditions will push equilibrium in either the forward or reverse direction.</p>	<p>BBC Bitesize</p> <p>Doddle – power points and quick quizzes</p> <p>You tube: ‘Free science lessons’</p> <p>Seneca learning platform</p>