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| **What will we be learning?****C6 – Rate and Extent of Chemical Change**  | **Why this? Why now?****Previous learning**Paper 1 content **What other GCSE Science units does this unit relate to?**Chemistry – Quantitative Chemistry, Chemical Changes, Energy ChangesBiology – Bioenergetics, Homeostasis and ResponsePhysics - Energy | **Key Words:**Rate of reactionReactantProductGradient of graphCollisionTemperatureSurface areaConcentrationPressureCatalystActivation energyReversible reactionDynamic equilibriumClosed systemForward reactionBackward reaction |
| **What will we learn?*** Rate of reaction
* Reversible reactions and dynamic equilibrium

**Useful equations/formulae/maths skills for this unit:**Mean rate = concentration of reactant used or product formed / timeTangent – a straight line touching a curve at one point onlyGradient – change in y/change in x**Required practical in this topic**The effect of concentration on rate of reaction |
| **What opportunities are there for wider study?****If you are interested in this unit, what careers does it relate to?**Industrial chemistry Research chemist Chemical engineer Analytical chemistry Make-up chemist Materials chemistDrug manufacturing Formula 1 technician – fuels and energy**Collins Revision guide relevant pages for this unit:**Higher: P124-127, P135, P153 Foundation: P120-123, P130 -131, P148-149 |
| **How will I be assessed?**End of Topic assessment |