

Subject	Year 8 Threshold Knowledge – Autumn/Spring/Summer term	How to support students' learning
Chemistry	<p>Autumn Term</p> <ol style="list-style-type: none"> 1. Recall the physical properties of metals and non-metals. 2. Use the reactivity series to write word equations for displacement reactions. 3. Predict which metals will react with acids and write word equations for the reactions of acids and metals. 4. Describe how different metals are extracted from their ores. 5. Define oxidation and reduction reactions and represent them using word equation. <p>Spring Term</p> <ol style="list-style-type: none"> 6. Recall the definitions of an acid and a base. 7. Describe the pH scale and what pH acids, alkalis and neutral substances have. 8. Recall the definition and general equation for neutralisation. 9. Explain how to make a salt from an insoluble solid base and acid. 10. Describe what an indicator is and how they work. <p>Summer Term</p> <ol style="list-style-type: none"> 11. Recall and describe the properties of the layers of the Earth. 12. Explain how igneous rocks are formed and describe their properties. 13. Explain how sedimentary rocks are formed and describe their properties. 14. Explain how metamorphic rocks are formed and describe their properties. 15. Describe and explain the processes in the rock cycle. 16. Define global warming and recall the factors that can contribute to it. 	<ul style="list-style-type: none"> • Use BBC bitesize Chemistry: https://www.bbc.co.uk/bitesize/subjects/znxtyrd. • Get pupils to set themselves quizzes on Educake (The Science Department's homework platform) to help them revise topics they are trying to understand. • Talk about science at home and what students have learnt today. As well as discuss new scientific advances in the news. • Watch BBC Four's 'Chemistry: A volatile history' documentary. • Use the link below to help find lessons you need to refresh and want to revise; https://continuityoak.org.uk/lessons