

Subject	Year 9 Chemistry Threshold Concepts – Spring Term	How to support students' learning
Reactions of acids	<i>Reactions of acids with metals (HT only)</i> • <i>Explain in terms of gain or loss of electrons, that these are redox reactions</i> • <i>Identify which species are oxidised and which are reduced in given chemical equations</i> Neutralisation of acids and salt production • Predict products from given reactants • Use the formulae of common ions to deduce the formulae of salts Soluble salts • Describe how to make pure, dry samples of named soluble salts from information provided The pH scale and neutralisation • Describe the use of universal indicator or a wide range indicator to measure the approximate pH of a solution • Use the pH scale to identify acidic or alkaline solutions	Encourage your child to watch this video on redox reactions GCSE Chemistry - Oxidation and Reduction - Redox Reactions #39 (Higher Tier) - YouTube Encourage your child to visit this website to learn about acids, bases, salts and neutralisation reactions Neutralisation S-cool, the revision website

	<i>Strong and weak acids (HT only)</i> • <i>Use and explain the terms dilute and concentrated (in terms of amount of substance), and weak and strong (in terms of the degree of ionisation) in relation to acids</i> • <i>Describe neutrality and relative acidity in terms of the effect on hydrogen ion concentration and the numerical value of pH (whole numbers only)</i>	Encourage your child to watch this video on strong and weak acids GCSE Chemistry - The pH Scale & Strong vs Weak Acids (Higher Tier) #35 - YouTube
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