

Name: _			
Date:			

Reactions Acids & alkalis



Devise an enquiry to compare how well indigestion remedies work. Apply Know Ideas The pH of a solution depends on the Identify the best indicator to distinguish K1 Α1 strength of the acid: strong acids have between solutions of different pH, using data lower pH values than weak acids. provided. Use data and observations to determine the Mixing an acid and alkali produces a Α2 K2 pH of a solution and explain what this shows. chemical reaction, neutralisation, forming a chemical called a salt and Explain how neutralisation reactions are used АЗ water. in a range of situations. Describe a method for how to make a neutral A4 **Facts** solution from an acid and alkali. Acids have a pH below 7, neutral K3 solutions have a pH of 7, alkalis have a pH above 7. Acids and alkalis can be corrosive or K4 Α5 irritant and require safe handling. Hydrochloric, sulfuric and nitric acid K5 are strong acids. K6 Acetic and citric acid are weak acids. Key words Α6 **pH:** Scale of acidity and alkalinity from K7 0 to 14. Indicators: Substances used to K8 identify whether unknown solutions are acidic or alkaline. Base: A substance that neutralises an

called alkalis.

acid - those that dissolve in water are

number of particles in a given volume.

Concentration: A measure of the

K9

K10

3	Extend
E1	Given the names of an acid and an alkali, work out the name of the salt produced when they react.
E2	Deduce the hazards of different alkalis and acids using data about their concentration and pH.
E3	Estimate the pH of an acid based on information from reactions.
E4	
E5	