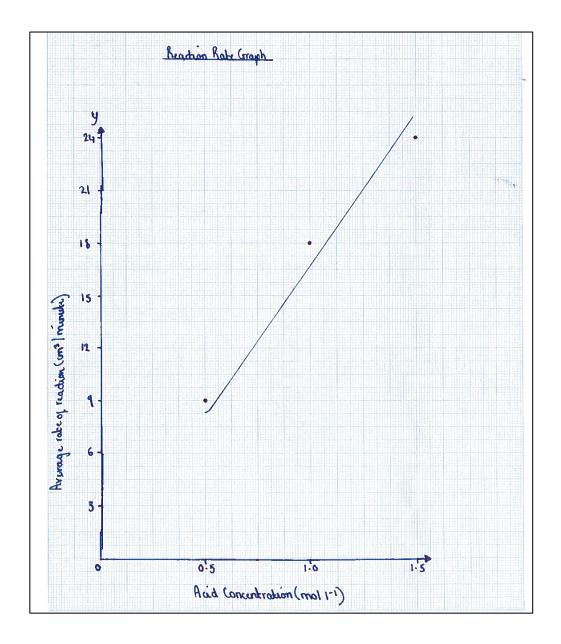
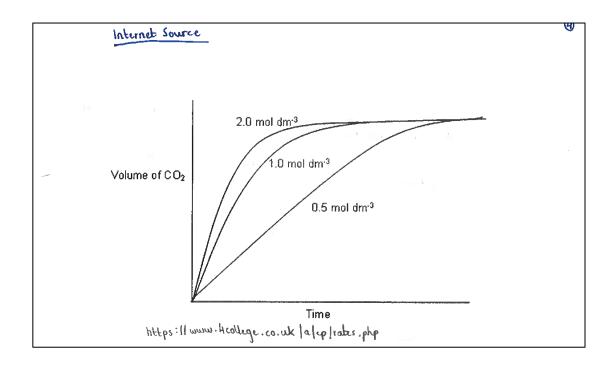
Candidate 3 evidence

	How Acid Concentration Agreets Reaction Rate.			
-	Ain: To find out how increasing the acid concentration afters the rate of reaction.			
promise nd s	headoon rate measures how providing fast a product takes to appear or for a readount to be used up. It can measure how fast a readion occurs. One of the factors affecting readion rate is concentration. When the concentration of a solution gets increased, there is now will be particles moving nearer to			
	each other. This will mean more collisions are tikely to happen, resulting in an increase of reaction rate. When the accordance to reactions being used increase in concentration then the quicker the rate of reaction will occur.			
	Lower Convention of had Higher Convention of had			
	When the acid being used is diluted then the hydrogen ions' concentration will the decreased resulting in the pH moving towards I. Acidic solutions contain less hydroxide ions than hydrogen whereas alkalis have less hydrogen ions and more hydroxide. Mewbrolisation can also take place when using acids. This is when bacid reacts with a base to form salt and water. This also coulds in the pH moving doser to I, Acidi can be newtralised by metal carbonates. When they react together 3 products are			
	formed, The formula used in this reaction is: Metal Carbonate + heid > Sall + Water + Carbon Dioxide CaCO3 + 2HU - CaCl2 > H2O + CO2 Milestrophysical When testing the reaction rate given of when when changing the concentration of an acid the following method can be used:			

			(3)		
Test tabe Stopper		me	swing whinda		
5 drips (1900)			water bath		
Desimption of expansions:					
Fire allow of calcium contained where placed into a feet tube with 15 cm ³ of acid and a lid. A delivery hose attached the test tube to a term trough of water containing a measuring cylinder placed upside down.					
Experimental Data:					
 Experimental Data					
Experimental Data	Volume at	(cm3)			
Acid Concentration (mol1")	Volume of Test 1	(cm³) Gas GivenOs	-1.		
		Gas Given Of	-1.		
Acid Concentration (mo)1"	Test 1	Test 2	Average Volume of Gas land		
Acid Concentration (ma) 1")	Test 1	Gas Given Os Test 7 26	Je-2		
Acid Concentration (mol1") 0:5 1:0 1-5	11 13 53 75	Gras Given Of Test 2 26 56 10	Average Volume of Gas land		
Acid Concentration (mo) 1") 0.5	11 13 53 75	Gras Given Of Test 2 26 56 10	Average Volume of Gas Con? 26-5 54-5 72-5		
Acid Concentration (mo)1") 0.5 1.0 1.5 Rate of 0.5 = A quantity	13 13 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Test 2 26 36 10 1cm ³ minul	Average Volume of Gas (cm?) 26.5 54.5 72.5		
Rate of 1.0 = 1 quantity Rate of 1.0 = 1 quantity	12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	Test 2 26 56 10 1cm ³ minul	16.5 54.5 72.5		





	Source Reference			
para	Source Reference Website www.4college.co.ukla/ep/rates.php			
	Analysis			
	Both the experimental data and the internet source were calculating how long it took for a readown to occur whilst eltering the concentration of a product. The internet changed the concentration by 0.5, 1.0 and 2.0 mod " and my experiment changed the concentration of the product by 0.1, 1.0 and 1.1 mod!"			
Basserbase beyond highling to complete the second	Condustan			
	As we can see by this experiment, increasing the acid concentration of a			
	product also increases the speed at which a reaction takes place. The higher			
	the concentration because, the source of higher returns of gas was given of -			
Paramilla de la	of the many bulgeties with the forthe first separate with the properties with the service for the service of th			
	to small.			
	Evaluation			
	For the majority of the experiment, all results were reliable. We can see this because as the concentration many increased, the returns of gas always went			
	up by bom? To make the experiment reliable we ensured the exact number of			
	and went into the test tube and that there were no air bubbles in the			
	measuring againder when the educationing the volume of gas given of Mext time we can ensure the volume of gos is written down at the week second, instead			
haman and haman	of reading the number up to ten seconds after the three minutes are over. This will make our results slightly more precise, and more accurate.			
	, , , , , , , , , ,			