PiXL Partners in excellence	sc	The ions discharged when an aqueous solution is electrolysed using inert electrodes depend on the relative			Splitting up using	water, the i	When an ionic compound is melted or dissolved in water, the ions are free to move. These are then able to conduct electricity and are called electrolytes.				Oxidation Is Loss, Reduction Is Gain			
	rea	activity of the	elements involved.	electrolysis	electricity	Passing an	Passing an electric current though electrolytes causes the ions to move to the electrodes.				<b>B</b> U	Metals can be extracted from molt compounds using electrolysis.		
At the negative electrode	if it is less reac Hydrogen will be p		uced on the electrode ive than hydrogen. roduced if the metal is than hydrogen.	Electrode	Anode Cathode	The ne	The positive electrode is called the anode. The negative electrode is called the cathode. The negative electrode is called the cathode. The negative electrode is called the anode.				Extracting metals using electrolysis	This process is use reactive to be extr		
At the positive electrode	If y	Oxygen is formed at positive electrode.  If you have a halide ion (Cl-, I-, Br-) then you will get chlorine, bromine or iodine formed at that electrode.		Where do the ions go?	e ions go?  Cations Anions		negativ are negative io positi	·		Extracting elec	The process is expensive due to large amounts of energy needed to produce the electrical current.  Example: aluminium is extracted in this way.			
	Elec	ctrolysis of a	queous solutions	El	ectrolytic	processes	S	_   <u> </u>	lı .	_		er tier: You can disp ch electrode using	olay what is hap	
	М	aking pure, dr	y insoluble salts			. TOPIC 3	Lead∄ons <b>⊉</b> b ⁺		Bromide@	ad⊈II)⊡		e cathode: $Pb^{2+} + 2$ e anode: $2Br^{-} \rightarrow B$		
Step 1	reactan	Add insoluble eactant (e.g. metal oxide) to acid  Add until there is an insoluble reacta				IGES 2			Using	Сорре	er is a ve	*	e copper availa	
Step 2	Filter t	the solution	Collect the filtrate in a conical flask and dispose of the residue.		Acids				copper		electrice nductor	•	ugh for this use so it is ed using electrolysis.	
Step 3	Cryst	tallisation	Heat the filtrate using a Bunsen burner to evaporate the water from the solution.		Titi		Titrations used to work out		Copper sulfate solution	The anode made of imp copper and cathode is m		bure sulfate sultion. Copp		s (Cu2+)
Step 4	Evaporation		Leave the evaporating basin with the heated filtrate to evaporate any remaining water and make pure, dry insoluble salts.				lumes of acid and s that react with		Electrodes	of pure copped The cathode of pure copper		of The anode decreases in size. The		
										bu	ilds up	impurities te		a staage.
	pot	Sodium, assium and mmonium		•	nd ammonium salts are d potassium fluoride.		1. Us		Use the pipette to add 2 flask and add a few					
Solubility		Nitrates	All nitrates are soluble e.g. po		tassium nitrate.		Medical administration of the administration	2 Fill the hurette with acid and note the star				e burette to the		
Solu		Sulfates	Common chlorides (e.g. sodium cl those of silver a					Stop adding the acid who (the appropriate colour)			en the end-point is reached			
		arbonates I hydroxides		and hydroxides are insoluble except n, potassium and ammonium.			to all values making making and all values and all values and all values has all values has a shape of other last.		happens). Note the final voluto 3 until you get co			g. Repeat steps 1		
					hau	ter hone – bri	abtor futuro							