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| **START**Question: The mass number is…Answer: A catalyst | Question: In an acidic solution there are…Answer: a covalent network structure |
| Question: The atomic number is… Answer: The number of protons + neutrons | Question: The catalyst used in the Ostwald Process is…Answer: More H+ (aq) than OH-(aq) ions |
| Question: A substance that conducts as a solid and a liquid is..Answer: The number of protons |  Question: An ionic bond is formed when ….Answer: Platinum |
| Question: A substance that doesn’t conduct as a solid but conducts when molten or aqueous is…Answer: Metallic | Question: A covalent bond is formed when … Answer: electrons are transferred from a metal to a non-metal |
| Question: Diamond has…Answer: Ionic | Question: In a neutral solution there are…Answer: electrons are shared between non-metal atoms |
| Question: The catalyst used in the Haber Process is…Answer: The same number of H+ (aq) and OH-(aq) ions | Question: The three essential elements in fertilisers are….Answer: cannot be reshaped by heating |
|  Question: In an alkaline solution there are…Answer: Iron  | Question: An isomer is…. Answer: NPK |
| Question: The monomers used in addition polymerisation are….Answer: More OH-(aq) than H+ (aq) ions | Question: Sodium chloride has… Answer: …a molecule with same molecular formula but different structure |
| Question: Condensation polymers are made by…. Answer: Alkenes | Question: A thermosoftening plastic…Answer: an ionic lattice structure |
| Question: A thermosetting plastic…Answer: joining monomers by elimination of a molecule of water | Question: An isotope is ….Answer: …can change shape upon heating |
| Question: Methane has a….Answer: ..an atom with the same atomic number but different mass number | Question: Unsaturated hydrocarbons… Answer: …a thin sheet of paper |
| Question: The products of complete combustion of hydrocarbons… Answer: … tetrahedral structure | Question: The products of incomplete combustion of hydrocarbons… Answer: decolorise bromine water |
| Question: These radioactive particles are high-energy electrons ejected from the nucleus… Answer: carbon dioxide and water | Question: Alpha particles are… Answer: carbon monoxide and soot |
| Question: Gamma radiation can be stopped by… Answer: Beta particles | Question: Beta radiation can be stopped by… Answer: positively charged helium nuclei |
| Question: Alpha radiation can be stopped by… Answer: lead or concrete | Question: General formula of the alkenes Answer: a thin sheet of aluminium |
| Question: General formula of the alkanes Answer: CnH2n | Question: This no. litres of 1 mol/l HCl is needed to neutralise 2 litres of 0.2 mol/l barium hydroxideAnswer: a bent molecule |
| Question: The third member of the alkanes Answer: CnH2n+2 | Question: The first member of the cycloalkanes Answer: 0.8 |
| Question: The second member of the alkenes Answer: propane | Question: Hydrogen fluoride is…Answer: cyclopropane |
| Question: Methane has the formula…..Answer: propene | Question: Ammonia is …Answer: a linear molecule |
| Question: Water is….. Answer: ..CH4 | Question: The halogens are found in Group…Answer: …pyramidal in shape |
| Question: This family of elements in the periodic table are unreactive...Answer: 7 | Question: This family are found in Group 1 of the periodic tableAnswer: Combustion  |
| Question: The functional group of the alcohols is…Answer: Noble Gases | Question: The functional group of the carboxylic acids is…Answer: Alkali Metals  |
| Question: The functional group of the esters is…Answer: Hydroxyl group | Question: This gas is produced when metal carbonates react with acidsAnswer: Carboxyl group  |
| Question: This gas burns with a popAnswer: -COO-  | Question: The test for oxygenAnswer: Carbon dioxide |
| Question: The scientific name for burningAnswer: Hydrogen | Question: In this type of reaction, a solid is formed when two solutions are mixed… Answer: Relights a glowing splint |
| Question: In this type of reaction, a higher metal pushes a lower metal out of solution… Answer: Precipitation | Question: In this type of reaction, a salt and water are always formed...Answer: electrolysis |
| Question: Endothermic reactions.. Answer: Displacement | Question: Exothermic reactions..Answer: neutralisation  |
| Question: The salt made when sulphuric acid reacts with potassium oxide is... Answer: take heat in | Question: The particles which flow through the wire in a cell are… Answer: give heat out |
| Question: The particles which flow through the electrolyte in a cell are… Answer: potassium sulphate | Question: Metal structures consist of…. Answer: electrons |
| Question: Metals more reactive than zinc are extracted by…Answer: ions | Question: Electrolysis is…. Answer: a lattice of positive ions in a sea of delocalised electrons |
| Question: Metal + Water 🡪Answer: a process in which ionic solutions/ melts are broken down by electricity | Question: A rock containing a metal compound is known as …Answer: metal oxide |
| Question: Reduction is…. Answer: metal hydroxide + hydrogen | Question: The number of moles in 25ml of 2mol/l NaOH solution is..?Answer: an ore |
| Question: Metal + Acid 🡪Answer: gain of electrons | Question: The percentage of nitrogen in ammonium nitrate is…Answer: 0.05  |
| Question: How many years will it take for radioactive uranium-238 to decay to 12.5% of its original mass? (Half-life = 8 years)Answer: salt + hydrogen  | Question: Spectator ions….Answer: 35 |
| Question: Metal + Oxygen 🡪Answer: 24  | Question: W is the symbol of this metal Answer: ..are present in a reaction but do not take part |
| Question: A process in which long-chain hydrocarbons are broken into shorter more useful moleculesAnswer: Tungsten | Question: 200ml of water is heated by burning ethanol. The temperature increases from 10°C to 23°C. The heat energy ( in kJ) released is..Answer: Fractional distillation |
| Question: Oxidation is….Answer: Cracking | Question: The valency of the phosphate ion… Answer: 10.868 |
| Question: The atomic number of molybdenum is…. Answer: Loss of electrons | Question: This metal forms blue coloured saltsAnswer: 3 |
| Question: This metal is the most dense of all… Answer: 42 | Question: The g.f.m of ammonium chloride is… Answer: Copper |
| Question: A process in which the molecules in crude oil are separated according to their boiling points…Answer: Osmium | Question: Speeds up a reaction but is not used upAnswer: 53.5 |