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| WEEK/Dates | TOPIC | HOMEWORK |
| Week beginning :  4/9/17 | Atomic structure and periodic table | * Protons ,Neutrons, electrons * Symbols of the elements and placement |
| Week beginning :  11/9/17 | Bonding structure and properties of metals | * Different types of bonding(Covalent/ionic/metallic) * Difference between metals and non- metals |
| Week beginning :  18/9/17 | Chemical analysis | * Mixture/Formulation * Chromatography   Practical- Experiment- Chromatography  Investigate how paper chromatography can be used to separate and tell the difference between coloured substances. Students should calculate Rf values.   * Identification of common gases (Hydrogen, oxygen, carbon-dioxide and chlorine) |
| Week beginning :  25/9/17 | Chemical changes | * Oxidation and reduction * Atomic structure of metals and ions formed * Displacement reaction * Reducing agent and Oxidizing agent * Balanced chemical equations * Reactions of metals and metals oxides with acids * PH and universal indicator * Electrolysis of solutions   Practical- Experiment   * Making salts   Preparation of a pure, dry sample of a soluble salt from an insoluble oxide or carbonate, using a Bunsen burner to heat dilute acid and a water bath or electric heater to evaporate the solution. |
| Week beginning :  2/10/17 | Chemistry of the atmosphere | * Composition of atmosphere using pie charts * Green house gases and global warming * Carbon footprint * Combustion * Effects of harmful gases |
| Week beginning :  9/10/17 | Energy changes | * Endothermic and exothermic reactions * Activation energy |
| Week beginning :  16/10/17  30/10/17 | Organic chemistry | * Formation and composition of crude oil * Hydrocarbons and properties with examples * Covalent bonding in methane, ethane, propane and butane. * Fractional distillation * Cracking of alkanes |
| Week beginning :  6/11/17 | Quantitative chemistry | * Law of conservation and relative atomic mass * Calculate no. of moles using relative atomic mass * Limiting reactant   Experiment- Practical-Electrolysis  **Investigating the elements formed at each electrode when different salt solutions are electrolysed** |
| Week beginning :  13/11/17 | The Rate and extent of chemical change | * Effect of concentration, pressure, temperature, * Collision theory * Advantages of using catalyst * Reversible and Irreversible reactions * Le Chatliers principle   Experiment-Practical   * Rates of reaction * Temperature Changes |
| Week beginning :  20/11/17 | Using resources | * Potable water and pure water * Distillation * Phytomining and bio leaching   Experiment- Practical   * Water Purification |
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