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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
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| Week beginning : 11/9/17 | Bonding structure and properties of metals | * Different types of bonding(Covalent/ionic/metallic)
* Difference between metals and non- metals
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| Week beginning : 18/9/17 | Chemical analysis | * Mixture/Formulation
* Chromatography

Practical- Experiment- ChromatographyInvestigate 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)
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| 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
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| Week beginning : 9/10/17 | Energy changes | * Endothermic and exothermic reactions
* Activation energy
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| Week beginning : 16/10/1730/10/17 | 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
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| 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
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| 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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