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**Subject: Science – Chemistry – Chemical changes, electrolysis and energy changes**

**Year: Y10**

**Term: Spring 2**

**Greenwood School Curriculum Summary**

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| **Episode name** | **Episode outline** | **Online link(s)**  | **Other Resources** |
| Calculations in Chemistry | Relative formula masses can be calculated and used in conservation of mass calculations. Calculations can be carried out to find out concentrations of solution and uncertainties in measurements. | <https://www.bbc.co.uk/bitesize/guides/z2bfxfr/revision/1><https://www.bbc.co.uk/bitesize/guides/z2bfxfr/revision/2><https://www.bbc.co.uk/bitesize/guides/z2bfxfr/revision/3><https://www.bbc.co.uk/bitesize/guides/z2bfxfr/revision/4>  |  |
| Reactions of Metals | The reactivity series shows metals in order of reactivity. The reactivity of a metal is related to its tendency to form positive ions. Iron and aluminium are extracted from their ores in various ways. | <https://www.bbc.co.uk/bitesize/guides/zy7dgdm/revision/1><https://www.bbc.co.uk/bitesize/guides/zy7dgdm/revision/2><https://www.bbc.co.uk/bitesize/guides/zy7dgdm/revision/3><https://www.bbc.co.uk/bitesize/guides/zy7dgdm/revision/4>  |  |
| Acids, Alkalis and Salts | Indicators are used to determine whether a solution is acidic or alkaline. Acids react with metals, bases and carbonates to produce salts. Neutralisation is the reaction between an acid and a base. | <https://www.bbc.co.uk/bitesize/guides/ztv2dxs/revision/1><https://www.bbc.co.uk/bitesize/guides/ztv2dxs/revision/2><https://www.bbc.co.uk/bitesize/guides/ztv2dxs/revision/3><https://www.bbc.co.uk/bitesize/guides/ztv2dxs/revision/4><https://www.bbc.co.uk/bitesize/guides/ztv2dxs/revision/5><https://www.bbc.co.uk/bitesize/guides/ztv2dxs/revision/6><https://www.bbc.co.uk/bitesize/guides/ztv2dxs/revision/7>  |  |
| Electrolysis | Electrolysis involves using electricity to break down electrolytes to form elements. The products of electrolysis can be predicted for a given electrolyte. | <https://www.bbc.co.uk/bitesize/guides/z9h9v9q/revision/1><https://www.bbc.co.uk/bitesize/guides/z9h9v9q/revision/2><https://www.bbc.co.uk/bitesize/guides/z9h9v9q/revision/3><https://www.bbc.co.uk/bitesize/guides/z9h9v9q/revision/4>  |  |
| Sample exam questions | Understanding how to approach exam questions helps to boost exam performance. Question types will include multiple choice, structured, mathematical and practical questions. | <https://www.bbc.co.uk/bitesize/guides/z22gfcw/revision/1><https://www.bbc.co.uk/bitesize/guides/z22gfcw/revision/2><https://www.bbc.co.uk/bitesize/guides/z22gfcw/revision/3><https://www.bbc.co.uk/bitesize/guides/z22gfcw/revision/4><https://www.bbc.co.uk/bitesize/guides/z22gfcw/revision/5><https://www.bbc.co.uk/bitesize/guides/z22gfcw/revision/6>  |  |