**Practical Science Videos**



Publication schedule

11 January 2021

The following table lists the practical video experiment videos to be published in the coming weeks. Interactive assessment material has been produced to accompany each video. These associated resources will be made available in January 2021.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Subject** | **Experiment Title** | **Level** | **Unit** | **Produced by** | **Location** | **Link** |
| Biology | Enzymes - Degradation reaction (catalase or amylase) | National 5 | Cell biology | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/zcr74qt/revision/2> |
| Biology | Effect of temperature on catalase | National 5 | Cell biology | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/zcr74qt/revision/4> |
| Biology | Hydrogen peroxide and immobilised/pH/substrate concentration | Higher | Metabolism for survival | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/zwnffg8/revision/4> |
| Biology | Hydrogen peroxide and catalase - pH | Higher | Metabolism for survival | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/zwnffg8/revision/4> |
| Chemistry | Burning of sodium in chlorine to make sodium chloride | National 5 | Chemical changes and structures | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/zct4fcw/revision/2> |
| Chemistry | Elephants toothpaste | National 5 | Chemical changes and structures | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/zct4fcw/revision/5> |
| Chemistry | Thin layer chromatography of plant pigment | Higher | Chemistry in society | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/ztkdd2p/revision/2> |
| Biology | Thin layer chromatography of plant pigment | Higher | Sustainability & interdependence | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/z23ggk7/revision/4> |
| Physics | Average speed | National 5 | Dynamics | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/zydyxfr/revision/4> |
| Physics | Instantaneous speed | National 5 | Dynamics | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/zydyxfr/revision/4> |
| Physics | Acceleration with double mask | National 5 | Dynamics | BBC, ES & SSERC | BBC Bitesize | <https://www.bbc.co.uk/bitesize/guides/zch83k7/revision/3> |
| Chemistry/Science | Burning Magnesium in air | BGE Level 3 | Chemical changes  | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/sFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry/Science | Electrolysis of Copper Chloride solution | BGE Level 3/4 | Chemical changes  | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/wFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry/Science | Factors affecting rates of reaction | BGE Level 3 | Chemical changes  | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/uFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry/Science | Magnesium oxide | BGE Level 4 | Properties and uses of substances | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/tFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry/Science | Red Cabbage indicator | BGE Level 3 | Chemical changes  | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/vFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Average rates of reaction | National 5 | Chemical changes  | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/fFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Magnesium oxide | National 5 | Chemical changes  | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/eFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Electrolysis of Copper Chloride solution | National 5 | Chemical changes  | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/gFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Factors affecting rates of reaction | National 5 | Chemical changes  | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/dFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Oxidation of Carbonyl compounds | Higher | Nature’s Chemistry | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/dFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Formation of esters | Higher | Nature’s Chemistry | ES & Napier University | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/dFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Displacement | National 5 | Chemistry in society | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/pFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Trends of Alkanes introduction | National 4National 5 | Nature’s Chemistry | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/oFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Trends of Alkanes viscosity | National 4National 5 | Nature’s Chemistry | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/iFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Trends of Alkanes E of E | National 4National 5 | Nature’s Chemistry | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/lFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Trends of Alkanes Flammability | National 4National 5 | Nature’s Chemistry | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/mFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Potassium permanganate solution and sodium sulphite solution | Higher | Chemical changes & structure | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/nFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Potassium permanganate solution and potassium iodide solution | Higher | Chemical changes & structure | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/qFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Iodine solution and sodium sulfite | Higher | Chemical changes & structure | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/rFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Iron with copper sulfate | National 5 | Chemistry in society | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/rFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Iron with copper sulfate | Higher | Chemical changes & structure | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/hFcp> <https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Miscibility of compounds | Higher | Chemical changes & structure | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/jFcp><https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Solubility of carboxylic acids | National 5 | Nature’s Chemistry | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/hFcp> <https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |
| Chemistry | Trends in physical properties of alcohols | National 5 | Nature’s Chemistry | Napier University & Ian Stewart | West OS powered by ClickviewSTEM Nation YouTube channel | <https://clickv.ie/w/hFcp> <https://www.youtube.com/playlist?list=PL2doW68jk7MTUZCLWI9FCrhl9fheNBVdQ> |