Learning Tracker; Elements from the Sea

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| **Topics** | **R** | **Y** | **G** |
| **Formulae, equations and amount of substance** |  |  |  |
| Calculating atom economy and efficient use of atoms |  |  |  |
| **Redox** |  |  |  |
| Explaining chemical processes in extraction of halogens |  |  |  |
| Techniques for carrying out electrolysis of aqueous solutions |  |  |  |
| Write half-equations for the electrolysis processes |  |  |  |
| Redox reactions in terms of electron transfer |  |  |  |
| Working out and assigning oxidation states |  |  |  |
| Use of oxidation states to balance redox reactions |  |  |  |
| Interpret names of inorganic compounds |  |  |  |
| **Inorganic Chemistry & Periodic Table** |  |  |  |
| Describe physical properties of halogens |  |  |  |
| Recall, describe and explain relative relativities of halogens |  |  |  |
| Explain halogen/halide reactions in terms of electron transfer |  |  |  |
| Recall the ionic precipitation reactions between halide ions and Ag+ [PAG4] |  |  |  |
| Describe the preparation of HCl, HBr and HI |  |  |  |
| Describe the properties of hydrogen halides and similarity in reactions |  |  |  |
| Risks associated with chlorine transport and storage |  |  |  |
| **Equilibria** |  |  |  |
| Recall the key characteristics of dynamic equilibrium |  |  |  |
| Understand what the equilibrium constant is and how it’s magnitude can be used to describe position of equilibrium |  |  |  |
| Calculations to determine Kc |  |  |  |
| Use of Kc to explain changing conc. on position of equilibrium |  |  |  |
| Use Le Chatielrs principle to extend ideas about opposing change on position of equilibrium |  |  |  |

**How can I improve?**

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