# Electrolysis of aqueous solutions: supporting resources

### This resource supports the practical video Electrolysis of aqueous solutions, available here [rsc.li/3a7LS37](http://rsc.li/3a7LS37)

## **Intended outcomes**

It is important that the purpose of each practical is clear from the outset, defining the intended learning outcomes helps to consolidate this. Outcomes can be categorised as hands on, what learners are going to do with objects, and minds on, what learners are going to do with ideas to show their understanding. We have offered some differentiated suggestions for this practical. You may wish to focus on just one or two, or make amendments based your learners’ own needs. (Read more at rsc.li/2JMvKa5.)

Consider how you can share outcomes and evaluation with learners, empowering them to direct their own learning.

**Hands on Minds on**

**Effective at a lower level Students correctly:**

* + Follow instructions
  + Use of safety goggles and awareness of hazards of chemicals and the need to wash hands after
  + Have a go at setting up the electrolysis circuit after watching a simple demonstration and with a diagram
  + Make simple observations at electrodes

**Effective at a higher level Students correctly:**

* + Correctly set up the electrolysis circuit with minimal intervention
  + Collect and test for hydrogen and oxygen gas

**Students can:**

* Record simple observations
* Link observations to positive or negative electrode
* Identify ions in solutions
* Work out which ion has reacted at each electrode based on observations

**Students can:**

* Predict which ion will react at each electrode
* Use the reactivity series to explain which ion will react at each electrode
* Write half equations
* Identify whether oxidation or reduction has taken place in a half equation