# Halogen displacement reactions: supporting resources

# This resource supports the practical video Halogen displacement reactions, available here: <rsc.li/3tZxFgu>

## 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:**

* Use equipment to safely carry out tests
* Follow instructions
* Make careful observations

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

* Plan and carry out an investigation into the reactivity of the halogens

**Students can:**

* Record observations in a results table
* Write a word equation for each reaction
* Use the results to deduce the trend in reactivity of the halogens

**Students can:**

* Use trends to make predictions about the reactivity of other non-metals
* Describe reactions as either oxidation or reduction
* Explain what is happening on a sub-microscopic level during the reaction
* Write balanced symbol and ionic equations for each reaction