# Identifying ions: supporting resources

This resource supports the practical video Identifying ions, available here: <rsc.li/3dhnn5B>

## **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
* Make careful observations
* Carry out a flame test
* Carry out tests for negative ions
* Carry out the sodium hydroxide test for positive ions

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

* Plan and carry out a series of tests to identify an unknown sample

**Students can:**

* Correctly record test results in a table
* Use the results to identify an unknown sample

**Students can:**

* Explain why different metals have different flame colours
* Write ionic equations for the sodium hydroxide tests and halide tests