# Conservation of mass: supporting resources

### This resource supports the practical video Conservation of mass, available here: [**rsc.li/373X3aW**](rsc.li/373X3aW)

## **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:**

* + Light a Bunsen burner safely and use the appropriate flame
  + Follow instructions
  + Use a top pan balance
  + Handle equipment while hot

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

* + Lift the lid without losing any product
  + Judge when the reaction has completed
  + Suggest improvements to increase accuracy

**Students can**

* Record results in a table
* Write a word equation for each reaction
* Identify where the perceived change in mass has come from
* Calculate change in mass

**Students can:**

* Record to an appropriate number of decimal places
* Write a balanced symbol equation for each reaction
* Explain why there is a perceived change in mass
* Use change in mass calculations to work out the mass of the reactants