

Infection

Download the teacher notes, PowerPoint presentation and student workbook that accompany this resource at rsc.li/3uUoCiQ.

Read our health & safety guidance, available from rsc.li/3IAmFA0, and carry out a risk assessment before running any live practical.

Safety glasses should be supplied for all learners.

The safety equipment suggested is in line with CLEAPSS requirements. For non-hazardous substances, wearing lab coats can help to protect clothes. The safety rules might be different where you live so it is worth checking local and school guidance.

This list assumes a class of 30 learners.

Acknowledgements

This resource was originally developed by the University of Reading to support outreach work delivered as part of the Chemistry for All project.

To find out more about the project, and get more resources to help widen participation, visit our Outreach resources hub: rsc.li/3CJX7M3.

Activity 1: spreading the infection

Equipment

- Tap water
- 1 bottle of universal indicator
- 50 ml measuring cylinder
- 30 plastic cups
- 30 plastic Pasteur pipettes

Preparation

- 50 ml of 1.0 M hydrochloric acid (currently not classified as hazardous but wear eye protection).
- Set up and number 30 plastic cups – one containing 50 ml of 1.0 M hydrochloric acid and the remainder containing only 50 ml tap water.

Activity 2: chemicals against infection

Equipment

'Chemical against infection' card sort from the teacher notes × 15 – print out and make into individual cards. Provide one set for each pair of learners.

Germaglo kit (germ transfer demonstration powder and germ powder transfer ball) available from: bit.ly/3ZH7eep.

Although this demonstration is not essential, it is useful for highlighting how easily germs can spread without anyone thinking about it. This kit is designed for use in schools, so should easily work for a class of 30.