

# Practicals

**We've created a variety of resources to help you meet the new A-level practical requirements, giving you more time to concentrate on sparking your students' interest and excitement for all things practical.**

They're designed to support required learning objectives, and to help you assess your students' progress through the Common Practical Assessment Criteria (CPAC).

If you have any questions, call our A-level science team on 01483 477 756 or [email us \(mailto:alevelscience@aqa.org.uk\)](mailto:alevelscience@aqa.org.uk).

## Handbooks

- Combined: [PDF \(http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-AS-A-LEVEL-PHBK.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-AS-A-LEVEL-PHBK.PDF)
- Biology: [PDF \(http://filestore.aqa.org.uk/resources/biology/AQA-7401-7402-PHBK.PDF\)](http://filestore.aqa.org.uk/resources/biology/AQA-7401-7402-PHBK.PDF)
- Chemistry: [PDF \(http://filestore.aqa.org.uk/resources/chemistry/AQA-7404-7405-PHBK.PDF\)](http://filestore.aqa.org.uk/resources/chemistry/AQA-7404-7405-PHBK.PDF)
- Physics: [PDF \(http://filestore.aqa.org.uk/resources/physics/AQA-7407-7408-PHBK.PDF\)](http://filestore.aqa.org.uk/resources/physics/AQA-7407-7408-PHBK.PDF)

## Training

- [Online practical endorsement training \(mandatory for lead teachers\) \(https://analytics.clickdimensions.com/aqaorg-uk-acja4/pages/i3ijwyt2eeibtahg25egq.html\)](https://analytics.clickdimensions.com/aqaorg-uk-acja4/pages/i3ijwyt2eeibtahg25egq.html)
- [Association for Science Education Conference 2018: AQA workshops and materials \(https://www.aqa.org.uk/contact-us/exhibitions/the-2019-association-for-science-education-conference/ase-2018\)](https://www.aqa.org.uk/contact-us/exhibitions/the-2019-association-for-science-education-conference/ase-2018)
- [ASE Conference 2017 slides: A-level Biology practical science endorsement \(http://filestore.aqa.org.uk/resources/science/AQA-ASE-2017-BIO-PSEP.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-ASE-2017-BIO-PSEP.PDF)
- [ASE Conference 2017 slides: A-level Chemistry CPAC best practice \(http://filestore.aqa.org.uk/resources/science/AQA-ASE-2017-CHEM-CPAC.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-ASE-2017-CHEM-CPAC.PDF)
- [ASE Conference 2017 slides: A-level Physics CPAC best practice \(http://filestore.aqa.org.uk/resources/science/AQA-ASE-2017-PHYSICS-CPAC.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-ASE-2017-PHYSICS-CPAC.PDF)
- [Webinar: Changes to practical assessment in A-level sciences from September 2015 \(http://www.aqa.org.uk/resources/science/as-and-a-level/teach/practicals-june-2015-webinar\)](http://www.aqa.org.uk/resources/science/as-and-a-level/teach/practicals-june-2015-webinar)
- [Webinar: Practical skills endorsement – best practice one year in – July 2016 \(http://event.on24.com/wcc/r/1206637/BFDD08C36AE0F034B07DF7FBFC2F6BF1?partnerref=practicalspg\)](http://event.on24.com/wcc/r/1206637/BFDD08C36AE0F034B07DF7FBFC2F6BF1?partnerref=practicalspg)

## Practical visits

- [Practical visit timeline \(http://filestore.aqa.org.uk/resources/science/AQA-A-LEVEL-SCIENCE-TL.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-A-LEVEL-SCIENCE-TL.PDF)
- [Practical endorsement visit guidance for lead teachers \(http://filestore.aqa.org.uk/resources/science/AQA-A-LEVEL-SCIENCE-PEV-GUIDE.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-A-LEVEL-SCIENCE-PEV-GUIDE.PDF)

## Practicals apparatus set-up guides

- [Biology set-up guides \(https://www.aqa.org.uk/resources/science/as-and-a-level/biology-7401-7402/teach/practical-s-apparatus-set-up-guides\)](https://www.aqa.org.uk/resources/science/as-and-a-level/biology-7401-7402/teach/practical-s-apparatus-set-up-guides)
- [Chemistry set-up guides \(https://www.aqa.org.uk/resources/science/as-and-a-level/chemistry-7404-7405/teach/practicals-apparatus-set-up-guides\)](https://www.aqa.org.uk/resources/science/as-and-a-level/chemistry-7404-7405/teach/practicals-apparatus-set-up-guides)
- [Physics set-up guides \(https://www.aqa.org.uk/resources/science/as-and-a-level/physics-7407-7408/teach/practical-s-apparatus-set-up-guides\)](https://www.aqa.org.uk/resources/science/as-and-a-level/physics-7407-7408/teach/practical-s-apparatus-set-up-guides)

## Contact our technician advisers

- [Technician advisers \(http://www.aqa.org.uk/resources/science/as-and-a-level/teach/technician-advisers\)](http://www.aqa.org.uk/resources/science/as-and-a-level/teach/technician-advisers)

## Assessment

- [Teacher worksheets for assessing the CPAC \(http://filestore.aqa.org.uk/resources/science/AQA-A-SCIENCE-CPAC-CLIST.DOCX\)](http://filestore.aqa.org.uk/resources/science/AQA-A-SCIENCE-CPAC-CLIST.DOCX)
- [CPAC student pen portraits \(http://filestore.aqa.org.uk/resources/science/AQA-A-LEVEL-SCIENCE-CPAC-PP.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-A-LEVEL-SCIENCE-CPAC-PP.PDF)
- Sample endorsement trackers with sub-competency tracking for [Biology \(http://filestore.aqa.org.uk/resources/biology/AQA-7402-SET.XLSX\)](http://filestore.aqa.org.uk/resources/biology/AQA-7402-SET.XLSX), [Chemistry \(http://filestore.aqa.org.uk/resources/chemistry/AQA-7405-SET.XLSX\)](http://filestore.aqa.org.uk/resources/chemistry/AQA-7405-SET.XLSX) and [Physics \(http://filestore.aqa.org.uk/resources/physics/AQA-7408-SET.XLSX\)](http://filestore.aqa.org.uk/resources/physics/AQA-7408-SET.XLSX)

## External resources

- [CLEAPSS: the science advisory service \(http://www.cleapss.org.uk/\)](http://www.cleapss.org.uk/)
- [Biology – Practical resources guide \(http://filestore.aqa.org.uk/resources/biology/AQA-7402-PRACTICAL-RESOURCE-S.PDF\)](http://filestore.aqa.org.uk/resources/biology/AQA-7402-PRACTICAL-RESOURCE-S.PDF)
- [NUSTEM: A-level Physics required practicals \(http://thinkphysics.org/activity/a-level-physics-required-practicals/\)](http://thinkphysics.org/activity/a-level-physics-required-practicals/)

## Examples of good practice

- [Biological drawings guidance \(CLEAPSS\) \(http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-BDG-CLEAPSS.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-BDG-CLEAPSS.PDF)
- [Student handbook: Building up student independence through CPAC assessment \(http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-SH-CPAC.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-SH-CPAC.PDF)
- [Guide to keeping a lab book \(http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-GKLB.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-GKLB.PDF)
- [Using a departmental handbook to support CPAC \(http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-UDHS-CPAC.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-UDHS-CPAC.PDF)
- [Sample worksheet: CPAC assessment scaffolding \(http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-SW-CPAC.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-SW-CPAC.PDF)
- [Research task template: Chemistry CPAC \(http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-RTT-CHEMCPAC.PDF\)](http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-RTT-CHEMCPAC.PDF)

## Specifications that use this resource:

- › [AS and A-level Chemistry 7404; 7405 \(https://www.aqa.org.uk/subjects/science/as-and-a-level/chemistry-7404-7405\)](https://www.aqa.org.uk/subjects/science/as-and-a-level/chemistry-7404-7405)
- › [AS and A-level Physics 7407; 7408 \(https://www.aqa.org.uk/subjects/science/as-and-a-level/physics-7407-7408\)](https://www.aqa.org.uk/subjects/science/as-and-a-level/physics-7407-7408)
- › [AS and A-level Biology 7401; 7402 \(https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402\)](https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402)

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**Document URL**

<https://www.aqa.org.uk/resources/science/as-and-a-level/teach/practicals>

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