


Qualitative techniques for inorganic analysis: Practical skills quizzes

These quizzes are available free to Learn Chemistry Partner (LCP) schools - [Register for LCP](#) for free or [check if your school is already signed up](#). Once signed up email education@rsc.org to request accounts. Each student needs only one account to access all our Assessment quizzes and our Practical Skills quizzes.

How to use these quizzes

Use these quizzes to enhance your understanding of techniques and procedures used in practical chemistry. Every question comes with feedback to help you progress and to appreciate the importance of developing effective laboratory skills

This picture shows aqueous solutions of three ions of transition metals. Two of the ions are different oxidation states of the same metal.



Match the solutions with the transition metal ions they contain. Refer to an [infographic](#) on the Royal Society of Chemistry *Learn Chemistry* website if you do not know all the colours.

The orange-brown solution in tube 1

The green solution in tube 2

The blue solution in tube 3

The qualitative techniques quizzes link to multiple videos, which demonstrate best practice. These videos can be viewed before you attempt the quizzes and referred to later to refresh your memory.

The final quiz 3.5 allows you to use all you have learned from the previous quizzes to identify two unknown samples.

There are five quizzes in this topic:

- 3.1 Preliminary observations ([data sheet](#))
- 3.2 Common anion tests ([data sheet](#))
- 3.3 Common cation tests ([data sheet](#))
- 3.4 Transition metal ion tests ([data sheet](#))
- 3.5 Identifying two unknowns ([record sheet](#))

Click on the link below to get started:

[Access the qualitative analysis quizzes](#)



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