Resource Plus: Deep learning & digital resourcing

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What is Resource Plus?

Resource Plus

IGCSE Biology
IGCSE Chemistry
IGCSE Physics

Sciences

Languages

English language and literature

Maths

Humanities and social sciences

Business, technical and creative

Cambridge Assessment International Education
What’s included for the IGCSE Sciences?

- Skills Packs and experiment videos
- Infographics
- Interactive Example Candidate Responses (iECRs)
- Past paper questions by topic
- Schemes of Work by topic
- Safety animation
- Safety poster
- Periodic table poster
- Skills for science booklets
Skills Packs

Skills Pack
Biotechnology – juicing apples
Cambridge IGCSE®
Biology 0610

Skills Pack
Model to determine half-life
Cambridge IGCSE®
Physics 0625

Skills Pack
The reversible reaction between two cobalt species
Cambridge IGCSE®
Chemistry 0620
The **Skills Packs** are built around the **experimental skills** listed in AO3.

- safely use techniques, apparatus and materials
- plan experiments and investigations
- make and record observations, measurements and estimates
- interpret and evaluate experimental observations and data
- evaluate methods and suggest possible improvements.

Each pack has a **specific focus** on two or three of these.

All of the lessons and activities have been designed to help learners **develop** their **skills** in these areas.
To help our teachers to develop learners’ experimental skills, the packs have three main sections:

- Briefing lesson
- Lab lessons:
  - Option 1 – run the experiment
  - Option 2 – virtual experiment
- Debriefing lesson
- Each section has a lesson plan and worksheets.
Each briefing lesson introduces the practical skill(s) from AO3 that learners will be developing during the experiment.
There are two options for running the lab lessons:

- Option 1 – run the experiment
- Option 2 – virtual experiment

Each experiment is supported with a Teacher walkthrough video, a Virtual experiment video and a range of worksheets.
These lessons are designed to allow learners to consolidate their knowledge and understanding.

Where appropriate they also provide opportunities for learners to practise their extended writing skills.
The videos

- Each Skills Pack is accompanied by three videos:
  - A master video
  - A teacher walkthrough video
  - A virtual experiment video
The videos on Resource Plus

Cambridge IGCSE® Chemistry (0620) Resource Plus

Planning
Skills Packs
Further support
Your feedback

1. Experimental techniques
2. Particles, atomic structure, ionic bonding and the Periodic Table
3. Air and water
4. Acids, bases and salts
The experiment

Model to determine half-life
Now it’s your turn

- Turn to page 16 in the Skills Pack
- Follow the method
- Record your results on the paper provided (not in the Skills Pack)
Skills in other subjects

- Developing Resource Plus has allowed us to think about skills that are both explicit and implicit in the sciences.

- We are now thinking about how we would support skill development in other subjects.

- We are starting with the A Level Sciences, IGCSE English Literature and IGCSE Mathematics.
What about your subject?

- Now it is your turn to think of an activity for your own subject.
- First of all think about the skills learners in your subject need to develop.
- Then consider an activity or group of activities that will help them to develop these skills.
Thank you for taking part in this session

Please stay if you want to ask any more questions