

Course Mapping Guide

Science - Secondary Other

About CENTURY

CENTURY is a learning platform that uses artificial intelligence to personalise learning for every learner. Our team of experienced teachers have created all of our content for English, maths and science from years 2 to 11, as well as functional skills content for post-16 learners. All courses are aligned to the national curriculum and national standards.

- ✓ Learning materials and questions for primary, secondary and post-16 learners
- ✓ Tailored to each learner's skills and knowledge
- ✓ Powered by the world's leading adaptive learning platform
- ✓ Web-based learning for tablets, laptops and desktops




How does **CENTURY** work?



Diagnostics

Learners begin by completing diagnostics that quickly identify knowledge gaps and misconceptions, and help CENTURY recommend the best learning materials for each individual learner.



Recommended Path

This constantly adapting personalised pathway contains micro-lessons designed to address gaps in knowledge, provide stretch and challenge and promote long-term memory retention.




Leadership Dashboard

Senior and middle leaders get an overview of performance and engagement on a subject, class and learner level.




Achievements

Learners get rewarded with badges and streaks for completing micro-lessons or using CENTURY over a certain period of time to increase their motivation and engagement.




Automated Marking

Teachers can view data in real time, to help you quickly identify which learners require additional support or further stretch.



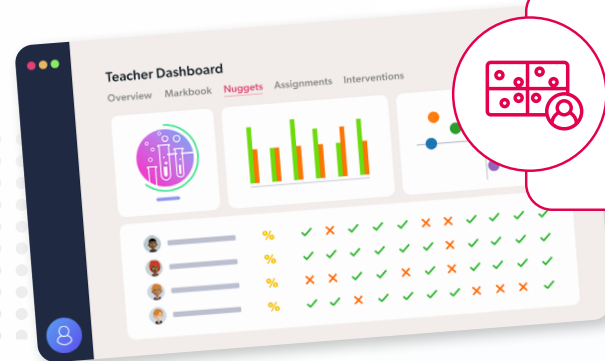
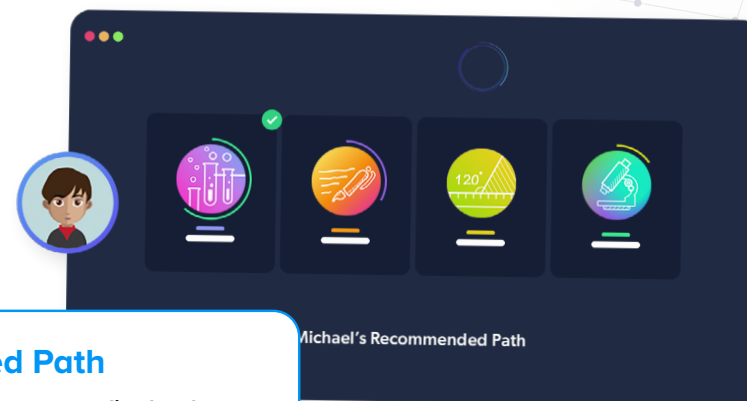
Teacher Dashboard

Use the markbook to monitor individual learners and whole-class trends with a range of dashboards.



Learner Dashboard & Guardian Portal

Learners can identify their strengths and areas for improvement. Parents and guardians can monitor their learner's progress, completed work, and see work set.



Science Courses

Secondary Other

These courses are mapped to the International Baccalaureate scheme.



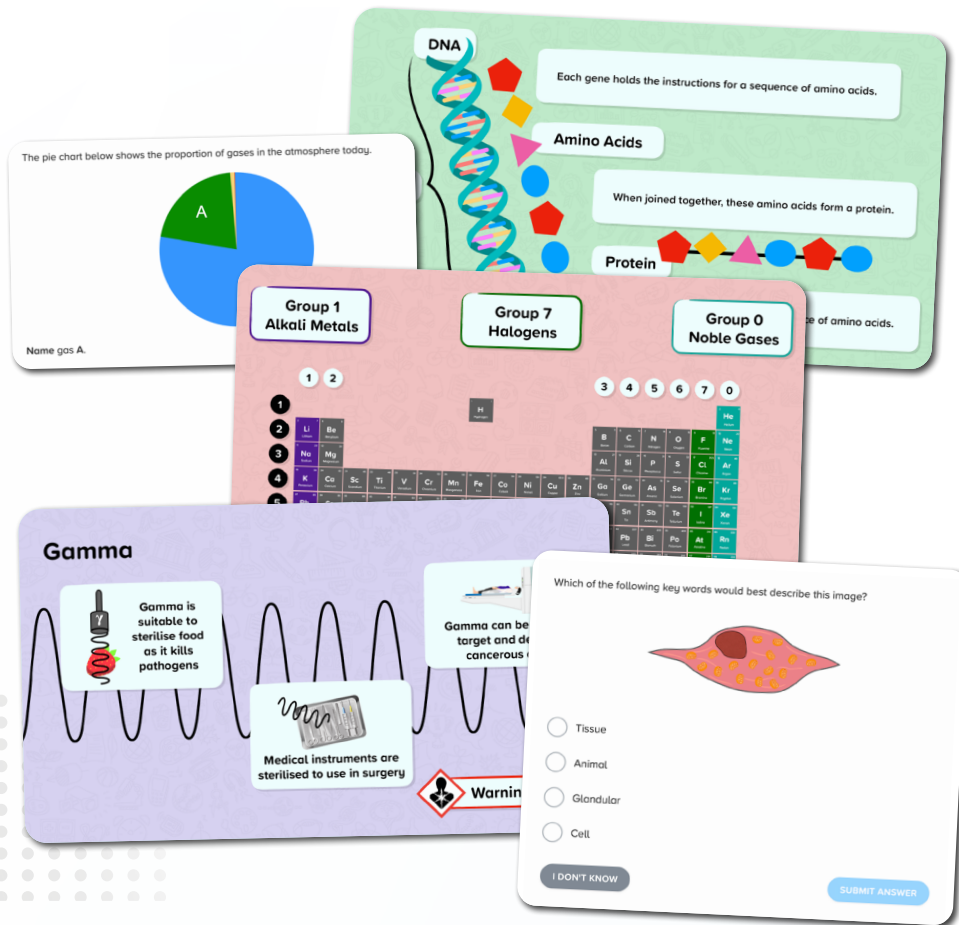
Science GCSE: Biology



Science GCSE: Chemistry



Science GCSE: Physics



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Science Courses

Working Scientifically Secondary

This course includes scientific skills and ideas that flow through all scientific disciplines. It is suitable for study alongside secondary science subjects.



Working Scientifically Secondary

It is important to know the names of the parts on the Bunsen burner. This will make it easier to safely operate it.

The barrel or chimney can get very hot during use, so the burner should be carried by the base to avoid burns.

The collar controls the size of the air hole, this is how the size & temperature of the flame can be regulated.

Not Accurate Not Precise Not Accurate Precise Accurate Not Precise Accurate Precise

Consider an archery player:

The arrows are considered to be **precise** if they are close together.

are considered to be **accurate** if they are near the centre of the bullseye.

like the results in an experiment, can be **precise** without being **accurate**.

Let's take a look at the classic investigation into the effect of light intensity on the rate of photosynthesis.

Medium

Hazard: Using dilute hydrochloric acid in a neutralisation experiment.

Risk: **Medium** – The acid is mildly corrosive and could cause skin or eye irritation if spilled. The risk is higher if protective equipment is not used.

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Science Courses

Prepare for A-Level Science

These courses covers the key concepts and foundational knowledge to aid transition and preparation to study science at A-level.



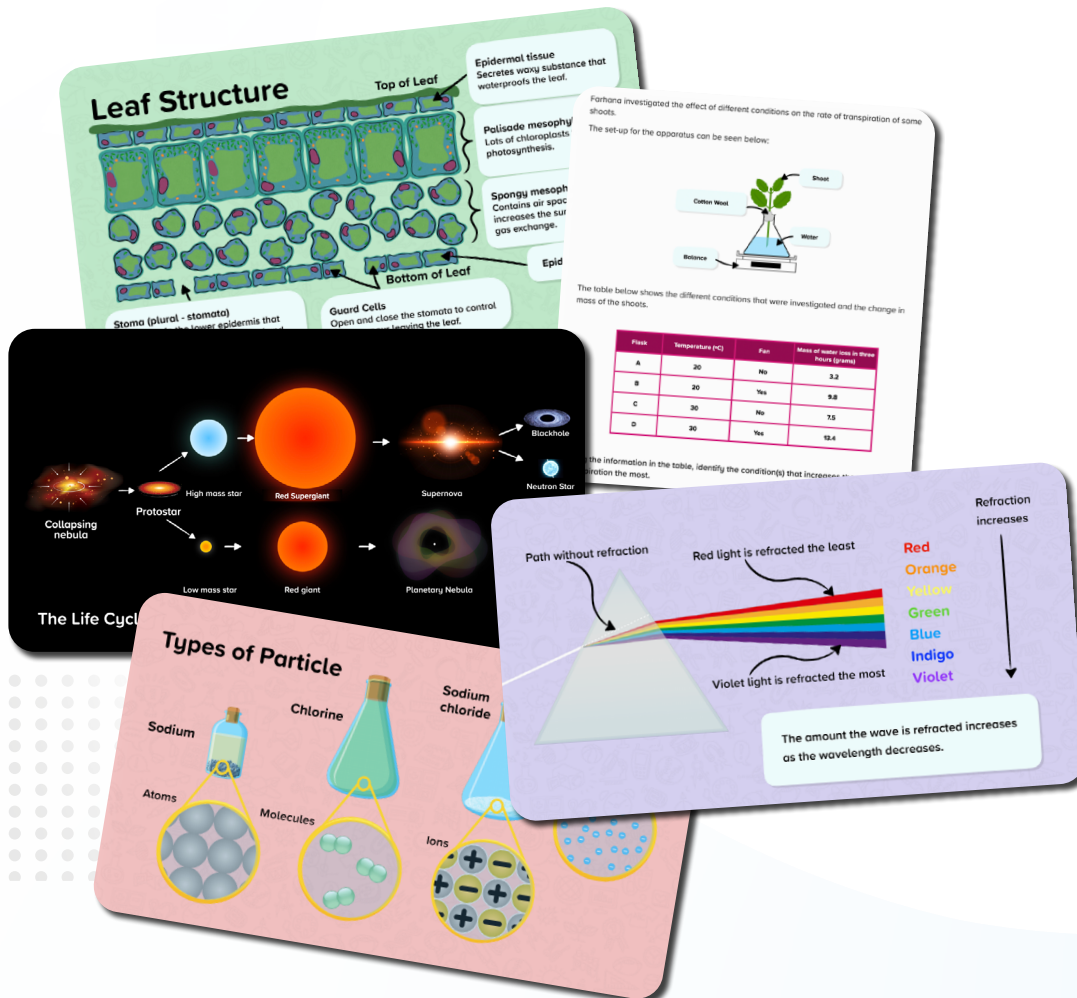
Prepare for A-Level: Biology



Prepare for A-Level: Chemistry

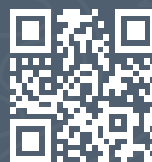


Prepare for A-Level: Physics



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Questions?
Email support@century.tech



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