

Assessment Prep with Kognity

IGCSE Combined Science

What is this guide for?

This guide is designed to help you make the most out of Kognity as a tool to prepare students for success both in formative assessments and IGCSE exam preparation.

How does Kognity help with assessment preparation for IGCSE Combined Science?

According to [John Hattie](#), Professor of Education and Director of the Melbourne Educational Research Institute at the University of Melbourne, Australia, feedback is an important driver for improving teaching and learning. Formative assessments play a large role in consistent feedback throughout the year as students prepare for their IGCSE exams. Kognity provides efficient tools for immediate feedback to both the student and teacher.

“
***Think of feedback
as received,
not given.***
”
- John Hattie

For students:

Students can test their problem solving, interpretation and analysis skills in Combined Science through completing worked examples and receiving immediate feedback on their responses. In addition, at the end of each section, students can complete section questions that are auto-graded, allowing them to receive feedback right away on their progress.




For teachers:

Teachers get immediate feedback on their students' progress through the performance overview dashboard, located on the statistics page. Here, teachers can view a visual representation of student quiz and assignment scores. Teachers can then easily identify those students who need help, which makes intervention fast and efficient.




Below you will find some ways teachers can use Kognity's resources to successfully prepare their students for IGCSE Combined Science assessment components. Click on each picture to explore more in Kognity Combined Science!

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Revision Quizzes

Kognity's [question assignments](#) can be used as revision quizzes for review at the end of a unit. Teachers can drill students on specific techniques and tools using multiple examples. All question assignments are auto-graded, so students and teachers can immediately receive the results. Teachers can then revise any common mistakes before starting to teach new content.

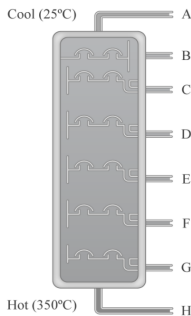
1. The particulate nature of matter				
10 questions				Add question
<input type="checkbox"/>	Sent	Question	Topic	Type
<input type="checkbox"/>		Look at the apparatus. Complete the following sentence: The apparatus which cools the gas is called a _____. This changes a gas into a liquid.	2 areas	
<input type="checkbox"/>	↗	When a gas is heated, the gas particles have more kinetic energy. Complete the following sentence: This means they move about more and have more _____ with the s...	2 areas	

Exam Practice Tasks

Kognity provides exam-style questions, marks schemes and model answers that teachers can use in a variety of different ways with their students. For example, teachers can go over a practice paper as a class, write the answer together, and focus on examiner comments. This is also a great way to familiarize students with command terms.

Question preview ✕

3 of 178 Paper: 3 Marks: 11



The diagram shows a vertical fractional distillation column. At the top, a pipe labeled 'Cool (25°C)' is connected to point A. The column contains several horizontal trays, each with a U-shaped condenser. Points B, C, D, E, F, and G are marked on the right side of the column, corresponding to the trays. At the bottom, a pipe labeled 'Hot (350°C)' is connected to point H.

(a) A fractional distillation column, shown in the diagram, is used to separate crude oil into its fractions. Describe how this process works.

How does Kognity help with formative assessments?

Homework/Progress Assessment

Question assignments or exam style assignments are given to students. Depending on the quality of the response, further questions can be added to reinforce or stretch their ability.

Assignment trends ⓘ

Student name	Submitted	Score	Q1	Q2
Rachel Adams	Yes	1/2	Green	Red
Kyla Alvarez	Yes	1/2	Green	Red
Johan Bernadotte	Yes	1/2	Green	Red
Hugo Cabret	Yes	1/2	Green	Red
Dennis Franklin	Yes	1/2	Red	Green
Melissa Gilbert	Yes	1/2	Red	Green

End of unit assessment

Teachers can give an end of unit formative assessment through strength questions to help students to identify their areas of weakness. Teachers can also assign examination questions to build knowledge and enable practice.

Strength test

Question 1

Complete the following sentence: When a gas is pressurised and energy added to the gas in the process of compression, the particles move around at a speed that is _____ than before.

Answer

[+ Report feedback or error](#)

How does Kognity help with IGCSE Assessment Preparation?

There are many different ways teachers can use Kognity features to prepare students for IGCSE Combined Science papers.

- Teachers can use Kognity content with knowledge organisers to assist completion and help assess accuracy.
- Past examination questions can be given using the question bank which allows bulk practice or specific assignment of questions.
- Reference material for a review lecture... e.g. Today's lecture will focus on section 7.
- Exam Breakfast / Lunch Notes and flashcards created from Kognity materials such as the Glossary.

carbohydrate

A compound comprising of carbon, oxygen and hydrogen used as a source of energy. Examples include starch and cellulose.

carbon neutral

No net carbon emissions are produced. This is because the carbon dioxide produced on burning the fuel was originally used up by the plant photosynthesising in the first place.

carboxylic acid

An organic compound that contains C=O and C-OH bonds.

2. Experimental techniques

Question 2.1 Paper 4 5 marks

Question 2.2 Paper 6 6 marks

Question 2.3 Paper 6 7 marks

Question 2.4 Paper 3 7 marks

Question 2.5 Paper 4 7 marks

Question 2.6 Paper 6 6 marks

Question 2.7 Paper 6 5 marks

Question 2.8 Paper 6 6 marks

Question 2.9 Paper 3 11 marks

Question 2.10 Paper 3 10 marks