

# Assessment Prep with Kognity

## IGCSE Maths

### 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 Maths?

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 Maths 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 Maths assessment components. Click on each picture to explore more in Kognity Maths!

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How does Kognity help with IGCSE Assessment Preparation?

# How does Kognity help with formative assessments?

## 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. Number			377 questions match your filters			Add question
<input type="checkbox"/>	Sent	Question	Difficulty	Topic	Type	
<input type="checkbox"/>		Write 0.3756 as a fraction in its simplest form. Write your answer as a fraction using the / key.		1.2	≡	
<input type="checkbox"/>		Which of these fractions is not equivalent to 55%?		2 areas	≡	

## Topic Based 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.

2. Algebra and graphs			42 questions		Add exam-style question
Add	Sent	Question	Paper	Marks	
<input type="checkbox"/>		$f(x) = 2x + 1$ $g(x) = x^2$ $h(x) = 3^{-x}$ (a) Find $f(-2)$ . [1 mark] (b) Find the positive value of $x$ when $g(f(x)) = 16$ . [2 marks] (c) Find the values of $k$ that satisfy the e...	4	12	
<input type="checkbox"/>		(a) The perimeter of the rectangle is 100 cm. The area of the rectangle is $A$ cm <sup>2</sup> . (i) Show that $x^2 - 50x + A = 0$ [3 marks] (ii) When $A = 600$ , solve the equation $x^2 -$	4	15	
<input type="checkbox"/>		The flight of a golf ball is shown in the diagram. (a) At what distance is the maximum height of the ball achieved? [1 mark] (b) By copying the graph, and drawing a suita...	4	12	

# How does Kognity help with formative assessments?

## In-class topic based assignments using mixed questions

Teachers set assignments using either questions assignments or strength tests. The questions are auto-marked and give question by question formative feedback to both the student and the teacher.

#	Question	Difficulty	Type	Class responses
1	Simplify $\frac{10x^6}{x^2}$			
2	Write $\frac{47}{8}$ as a mixed number. Give your answer in the form a b/c.			

## Self-Study

Students can take strength tests or engage in strength battles with classmates to identify their strengths and weaknesses in content areas. Students can keep track of their progress through their strength bar on the overview page.

### Strength test

Question 1

Write 38.97 to 1 decimal place.

Answer

Type your answer

+ Report feedback or error

Next >

or press RIGHT



## How does Kognity help with IGCSE Assessment Preparation?

There are many different ways teachers can use Kognity features to prepare students for IGCSE Maths papers. Kognity allows users (either through teachers setting assignments, or through student self-selection) to complete assignments and practice tests (strength tests) to check understanding both ongoing and at points close to assessments. The use of exam-style question practice assignments allows for careful and detailed preparation for external assessments.

2. Algebra and graphs		
Question 2.1	Paper 3	12 marks
Question 2.2	Paper 3	9 marks
Question 2.3	Paper 4	15 marks
Question 2.4	Paper 3	15 marks
Question 2.5	Paper 4	20 marks
Question 2.6	Paper 4	15 marks
Question 2.7	Paper 4	9 marks
Question 2.8	Paper 4	20 marks
Question 2.9	Paper 4	8 marks
Question 2.10	Paper 4	15 marks