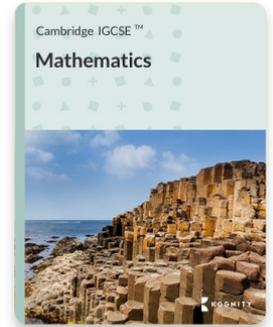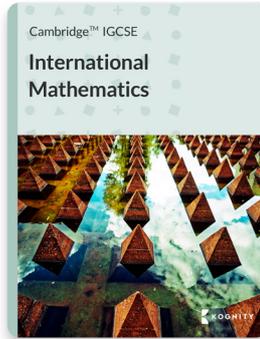# IGCSE Maths & International Maths

Our IGCSE International Mathematics subject supports the full Cambridge IGCSE™ International Mathematics(0607) syllabus for the first examination from 2020.

Our IGCSE Mathematics subject supports the full Cambridge IGCSE™ Mathematics (0580) syllabus for the first examination from 2020.

Key Features

Section 7.2.4

Exploration

Create assignment ▾

🔖 Students who have completed this section (by class):   ◯ 0/12

In this subtopic you have seen how to calculate the area of a square and the area of a circle. Here are some extension tasks for you.

- Using only a straight edge and compasses, can you draw a square with the same area as a circle?
- If you could not do it, can you explain why?
- Investigate what a transcendental number is.
- Give an example of a transcendental number.
- How are transcendental numbers related to not being able to draw a square with the same area as a circle?

Kognity Maths contains investigations to deepen learning, develop problem-solving and modelling skills and help students prepare for examinations.

You will find "Making Connections" boxes throughout Kognity's Maths. These help students make links between areas of mathematics and other subjects.

🔗 **Making connections**

To solve this problem, you need to remember how to convert between units of measurement of area. Take a look at section 7.1.2 if you do not remember.

You will find "Making Connections" boxes throughout Kognity's Maths. These help students make links between areas of mathematics and other subjects.
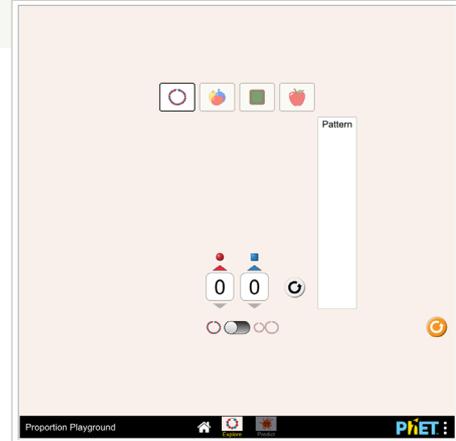
Add question

Difficulty	Topic	Type
	2.6	
	2.6	
	2.6	

Questions within Kognity's Maths come complete with an easy, medium or hard rating. This allows for differentiated assignments and promotes teaching and learning to take place at each student's point of need.

	Sent	Question	Difficulty	Topic	Type
☐		Given that $24x^5y^7 \times \frac{3}{8}x^{-9}y^{-4}$ can be written as px^my^n, find the values of p, m and n. $p =$____, $m =$____ and $n =$____		2.6	
☐		Given that $15a^3b^{10} \times \frac{1}{5}a^{-3}b^{-6}$ can be written as pa^mb^n, find the values of p, m and n. $p =$____, $m =$____ and $n =$____.		2.6	
☐		Given that $x^2y^4t^2 \times x^8y^7t^5$ can be written as $x^ay^bt^c$, find the values of a, b and c. $a =$____, $b =$____ and $c =$____.		2.6	