

# Optimising Learning in Maths @ Keyham Lodge

The Maths curriculum at Keyham Lodge should ensure that all students have the opportunity to see, and develop a deep understanding of how, maths shapes the world in which they live.



## 1 Have you seen this before?

In order to disrupt the forgetting curve and to remember what we have learnt, opportunities to revisit learning from last lesson, last week and beyond will be regularly planned.

## 2 The first step is often the most difficult.

Learning for all students should be broken into smaller achievable goals. Students will need to be confident with prerequisite knowledge before moving on.

## 3 You dont know how to do it... yet.

Everyone makes mistakes, but how we overcome them is key. Regular and varied strategies for questioning will be key. Language for learning is key

## 4 Concrete, pictorial and abstract

Where ever possible, use the array of physical resources available in the department to demonstrate mathematical operations and concepts.

## 8 Explain what they have learnt.

Key method points should be explicitly discussed and recorded. Could they tell someone else in the class what they have learnt. Do they know? How do they know?

## 7 What next...?

Use immediate feedback in books to inform misconceptions and errors. What are the characteristics of an excellent piece of work?

## 6 Opportunities to practise

Include as many opportunities for deliberate and independent practise as possible. Practise should be aimed at an appropriate level where students can choose to be successful.

## 5 How does this relate to the world they are living in?

Give examples of how their learning is linked to the world in which they live. Real life examples from employment, or simply why its important for them to know and use this bit of maths. Be creative!