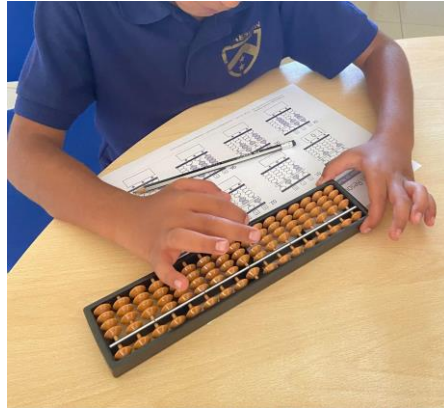




Braeburn Dar es Salaam International School

# Welcome to the Maths Parent Workshop



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Responsible Citizens



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Braeburn Dar es Salaam International School

# Programme

- Maths at Braeburn Dar Es Salaam Primary School
- How you can support your child at home
- Join your child during maths lesson



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## **Maths at BDIS**

Mathematics is a fundamental part of life at Braeburn Dar. Alongside daily maths lessons, we also organise a range of different activities and themed events for the children throughout the academic year, including:

- School-wide competitions
- Extension problem solving tasks – chilli challenge board
- Maths days
- Clubs/ extracurricular activities

These enrichment activities allow children to apply their mathematical skills whilst also contributing to their personal and social development.





## Positive/ Growth Mindset

Resilience and perseverance are two key skills that are regularly referred to in maths lessons across the school.

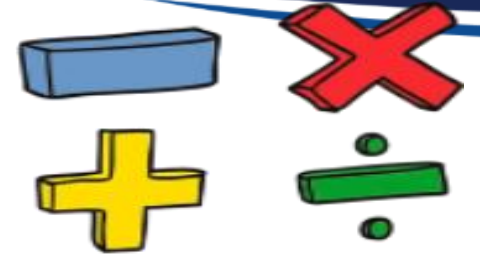
Teachers are constantly reminding children to experiment, have a go and try their best - even if they are unsure.

We have regular conversations about the importance of learning from our mistakes and being resilient when things get a bit tricky.



**Golden Rule: We try our best and learn from our mistakes.**





## What is Maths Mastery?

- Maths Mastery is a way of teaching maths that enables all children to acquire a **deep, secure and adaptable** understanding of the subject
- At BDIS, maths is taught this way from **Year 1 through to Year 6**
- Maths Mastery focuses on **depth of understanding** rather than **speed** in order to give pupils the best chances of mastering maths.
- Achieving mastery means to have a solid enough understanding of the maths taught to enable children to move on to more advanced material.





## What does it mean to 'master' something?

- I know how to do it
- It becomes automatic and I don't need to think about it, for example, driving a car
- I'm really good at doing it
- I can show someone else how to do it





# Key ideas of maths mastery

1. It is achievable for all - no child left behind
2. Deep and sustainable learning
3. Carefully planned questions
4. Building on previously mastered knowledge
5. Reasoning and making connections between learning
6. Conceptual and procedural fluency

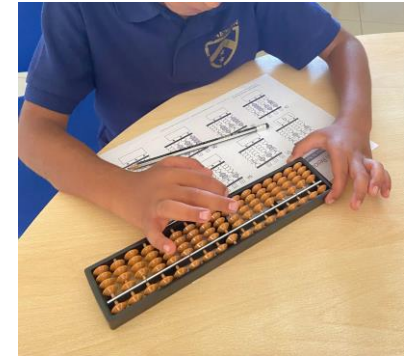




# Concrete-Pictorial-Abstract

All year groups follow the CPA procedure to teach mathematical ideas. For example, in Year 2 children learn how to add and subtract 10 to numbers up to 100:

**Concrete:** using dienes, cubes or counters to physically remove or add 10 to a number. This helps children visualise the change happening. They will also use **oracy** and verbally count 10 more or 10 less.



**Pictorial:** once children understand this concept practically, teachers will then introduce pictures and visual stimuli. For this example, it may include pictorial versions of the dienes, cubes/ counters previously used.

**Abstract:** finally, teachers will move to showing the children abstract concepts. For example, number lines/ grids to 100 where the value of the numbers are not explicitly shown.

10	20	30			
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			35	45	55			
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# Reasoning and Problem Solving

Once children have gained a secure understanding of different concepts, they are then challenged through a reasoning or problem solving question which will encourage them to think more deeply and critically about a concept. The children are encouraged to make connections with previous learning in order to solve these problems as well as using specific mathematical language. These questions are asked verbally during lessons as well as written on worksheets.

Questioning is a central focus in maths mastery. Here are some examples of the question types asked on a daily basis:

What do you think...?

Why?

What will happen if...?

What do you notice about ... ?

Can you see a pattern between... ?

What if we try...?





## How can you support your child at home?

-Talk to your child about their learning, what they learn in their maths lessons each day and ask your child how they solved problems in school.

-Help your child to learn times tables and their number bonds - this is a crucial part of their maths learning. When children know these facts automatically, it frees up their working memory so that they may problem solve and reason mathematically. A great free app for this is the White Rose 1 Minute Maths app on:

<https://apps.apple.com/us/app/1-minute-maths/id1584136366>

<https://play.google.com/store/apps/details?id=com.whiterosemaths.oneminutemathsk1&pli=1>

-Practice problem solving using Mangahigh Maths app at: <https://www.mangahigh.com/en/>

-Practice multiplication tables and problem solving using Education City at: <https://go.educationcity.com/>

- Maths fun games at <https://www.topmarks.co.uk/>





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**Thank you for your continued support and  
encouragement!**



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