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# Funtastic Math @ FGPS



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# Can you play games without using numbers?



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# Can you practice any sport without using numbers to learn if you are a winner or a loser?





# Can you cook/ bake without using numbers?

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1 cup salted butter\* softened  
1 cup white (granulated) sugar  
1 cup light brown sugar packed  
2 tsp pure vanilla extract  
2 large eggs  
3 cups all-purpose flour  
1 tsp baking soda  
1/2 tsp baking powder  
1 tsp sea salt\*\*\*  
2 cups chocolate chips (or chunks, or chopped chocolate)

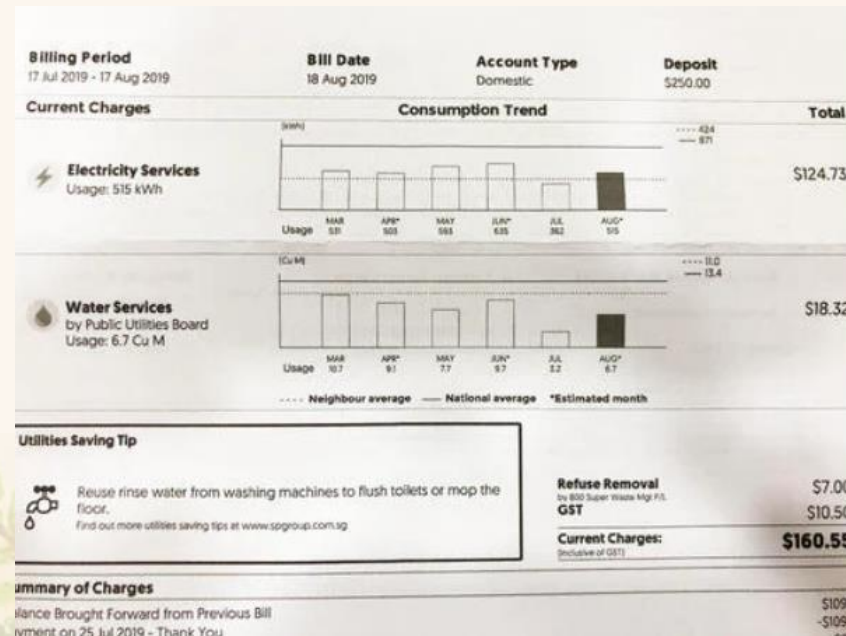




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# Can you manage the home without using numbers?

- How much water is used?
- Paying electricity bill, usage of mobile data
- What is your monthly expenses? How much do we save per month?



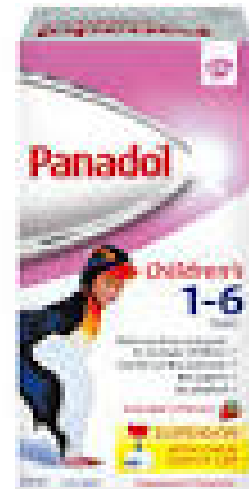
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# Can you take medication without knowing what the numbers mean?

## For Fever and Pain

Paracetamol is commonly used to treat pain and fever in children. The correct dose of paracetamol depends on your child's weight. The usual dose of paracetamol is 10-15mg per kg (of your child's weight), taken once every 4 to 6 hours, up to 4 times in 24 hours if needed.

- What is the weight of your child?
- What is the dose required? In terms of ml, mg?
- 4 to 6 hours, up to 4 times in 24h – to know the maximum dose
- Would 1 bottle of 60ml be sufficient to last 2 days?





# Can you go grocery shopping without using numbers?

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- Shopping within a given budget.
- How much can we buy?  
How much do we have left?



# Why do we learn mathematics?

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- Numeracy in the real world – universal language
- Gives us a way to identify patterns, define relationship, predict the future
- Math concepts and skills helps us do many important things in our daily lives







- Powerful Tool
- Essential Life Skill
- Understand the world
- Encourages reasoning, critical thinking, problem solving and communication skills





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# Uses of Math in Practical Life



## Finances

Eg: count and manage money

## Sports

Eg: Improves a person's cognitive and decision-making skills

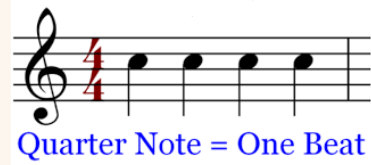
## Home Design

Eg: Area and Perimeter, measurements



## Music

Eg: Using fractions and ratio helps understand rhythm of musical notes



## Cooking

Eg: measurements in baking, cooking; fractions and ratio



## Agriculture

Eg: determine yield and quantity of crops, returns and expenditures



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# **Math develops the ability to think**

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**Helps explain the way things work**



**Able to calculate, measure, analyse**



**Helps make informed decisions**



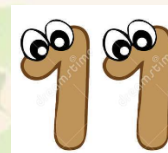
**Necessary for Science and Art**



**Identify patterns**



**Solve secrets of nature**







# **Jobs that require Math**



**Data Analyst** ☒

**Medical Scientist** ☒



**Auditor** ☒

**Economist** ☒

**Computer Programmer** ☒

**Financial Analyst** ☒

**And many more**



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# University Entry Requirements

## International Baccalaureate (IB) Diploma

### New 'A' Level Curriculum

These are the minimum required curriculum (1.e. H1/H2/H3 subjects)

The IB Diploma is a recognised certificate for consideration by NUS for admissions. However for entry into the Business Administration and Business Administration (Accountancy) courses specifically, IB Diploma holders are expected to have read and passed **at least Standard Level Mathematics for those taking the IBDP Examination Session November 2020 and earlier or a pass MAA or HL MAI for those taking the IBDP Examination Session May 2021 and beyond.** Other subjects like Business Studies help to give students a slight head start, but are not pre-requisites for entry.

## Polytechnic Diplomas from Singapore

Polytechnic students from Singapore, regardless of nationality, who hold a Diploma from any area are highly encouraged and recommended to have a strong mathematics preparation similar to the requirement for A-level students as this will serve as an essential foundation to a business education at NUS. You should also submit your Singapore-Cambridge GCE O-level results, if available. If you are a student in your final semester of study at the Polytechnic, you can apply with your results obtained from your first 5 semesters of study. You should submit your final semester results to the Office of Admissions, NUS as soon as these are available.

Please refer to: <http://www.nus.edu.sg/oam/grade/profile/sprogramme-igp.html> for the latest Indicative Grade Profile and course places for both A-level and polytechnic applicants.

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# Polytechnic Entry Requirements

A thick yellow arrow with a slight curve, pointing downwards from the top right towards the table.

Minimum Entry Requirements	
Subjects	Grade
English Language	1 - 7
Mathematics (Elementary/Additional)	1 - 6
Any two other subjects	1 - 6
<i>Please also refer to Note (a)</i>	
English Language	1 - 7
Mathematics (Elementary/Additional)	1 - 7
Any two other subjects	1 - 6
<i>Please also refer to Note (b)</i>	



# Secondary School Subjects

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The subjects offered are:

- English Language
- Mother Tongue Languages
- Mathematics
- Science
- Character and Citizenship Education
- Humanities, such as Geography, History and Literature in English
- Design and Technology
- Food and Consumer Education
- Physical Education
- Art
- Music
- Project Work

MOE Website

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# Primary School Curriculum

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## Basic Numeracy

Develop logical reasoning & problem-solving skills required in many disciplines

Have the knowledge and skills for learning mathematics at the next level



# Math Programmes in FGPS

Learning by Doing  
Approach

Problem Based Learning

Leveraging on Technology



SINGAPORE  
**Student Learning Space**



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# Koobits @ Home



## Self-directed & Independent Learning

Intuitive & User friendly, AI adjusts level of difficulty

## Captivating Interest

*Interactive, Motivating Fun*

## Aligned to syllabus

Relevant worksheets

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# Mission

## Aligned to MOE's Maths Curriculum

Stay updated on the latest P1 to P6 syllabus

Primary 1

Change Level

★ 0 / 36

Numbers to 10

Proficiency %

High Score ★★★

	High Score	Skill Name	Difficulty	Tutorial
Numbers to 10				
Addition	1 ★★ ★	To count the number of objects	🔥 🍷 🍷 🍷 🍷	<a href="#">Practice</a>
Subtraction	2 ★★ ★	Count to 10 in numbers	🔥 🍷 🍷 🍷 🍷	<a href="#">Practice</a>
Shapes	3 ★★ ★	Count to 0	🔥 🍷 🍷 🍷 🍷	<a href="#">Practice</a>
Ordinal Numbers	4 ★★ ★	Count on to find 1 more	🔥 🍷 🍷 🍷 🍷	<a href="#">Practice</a>
Numbers to 20	5 ★★ ★	Compare two numbers within 10	🔥 🍷 🍷 🍷 🍷	<a href="#">Practice</a>
Addition and Subtraction	6 ★★ ★	Count to 10 in words	🔥 🍷 🍷 🍷 🍷	<a href="#">Practice</a>
Picture Graphs	7 ★★ ★	Compare the number of objects in two or more sets	🔥 🍷 🍷 🍷 🍷	<a href="#">Practice</a>
Numbers to 100	8 ★★ ★	Count back to find 1 less	🔥 🍷 🍷 🍷 🍷	<a href="#">Practice</a>
Addition and Subtraction within 100				
Length				
Multiplication				
Division				
Time				

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# Fun Features in Koobits



## Daily Challenge - Math

10 personalized questions per day


Opening Hours:

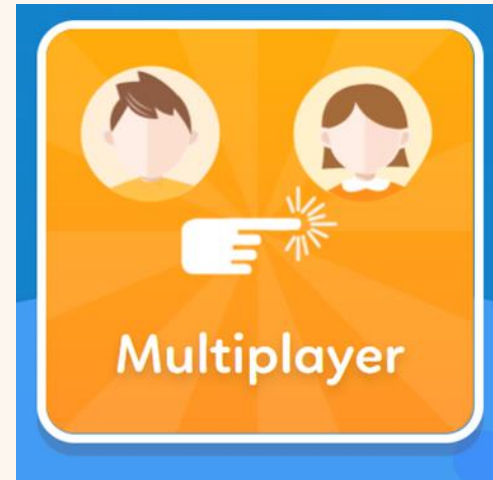
6am to 10pm, Monday to Saturday

Total Qns

10

Rewards

 17 CPs (Full Score)



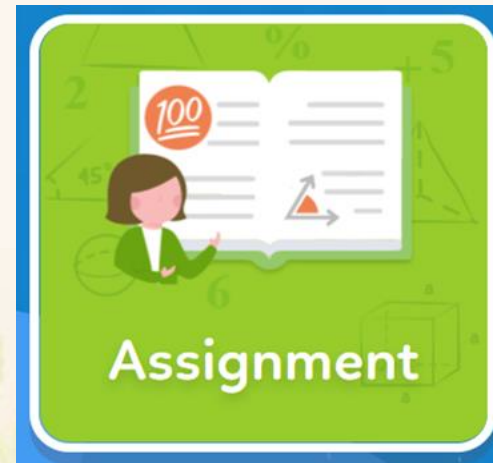
## Peer Challenge - Math

Opening Hours:

6am to 10pm Daily



3 Challenges remaining for today



Teacher assigned

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# Fun Features in Koobits

# Motivating

Fun

**Leaderboards** Rules

Math Science

Miko is adding up your CPs and will update the Leaderboard every 5 minutes.

**Open Challenges**

- Hero of The Day**  
Daily Challenge: 6am to 10pm
- Top Brain**  
Quarterly Challenge
- Champion Class**  
Monthly Challenge
- Best Friends Forever**  
Weekly Challenge: Mon to Sun
- Super Hero**  
Weekly Challenge: Mon to Sat
- Lion City**  
Start Date 01 Dec 2022  
Close Date 31 Dec 2022

Self-directed

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# Fun Features in Koobits



## 20 mins/day = 30% improvement

Nurture a learning habit with 10 customised questions

Why are 200,000+ children so eager to practise maths every day on KooBits? That's because they love our 10-question daily challenge.

These 10 questions adapt to a child's ability, giving them the **perfect dose of difficulty** to stay motivated. We've paired it with a **clever rewards system** to encourage consistent effort too.

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- ✓ 10 daily questions customised to improve your child's weak points
- ✓ Aligned to the latest Singapore MOE syllabus
- ✓ 1,000+ Animated tutorials that help kids visualise and learn concepts 4x faster
- ✓ Unlimited access to 100,000+ P1-P6 maths questions for the best revision
- ✓ Heuristic mastery for the toughest MOE word problems

- ✓ Automatic marking, instant feedback and step-by-step explanations
- ✓ 100+ Top schools' exam papers with full-worked solutions
- ✓ Easy-to-use platform, made for kids to use by themselves



# Parents- You are important!



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Make it Fun!



Confidence  
Curiosity  
Courage



Reinforce positive  
behaviour and attitude



Focus on  
effort, not  
mistakes



Pose problems  
according to their  
current level of  
knowledge



Make connections  
to real life



Focus on Child's  
progress and ability



**PRAISE**

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# Parents and Teachers



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“At the end of the day, the most overwhelming key to a child's success is the positive involvement of parents.”  
- Jane D. Hull

Together  
MAY WE GIVE  
our children  
the roots  
to grow  
AND THE  
wings  
to fly



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# Hands-on with Koobits (5 min)



Please scan for website.



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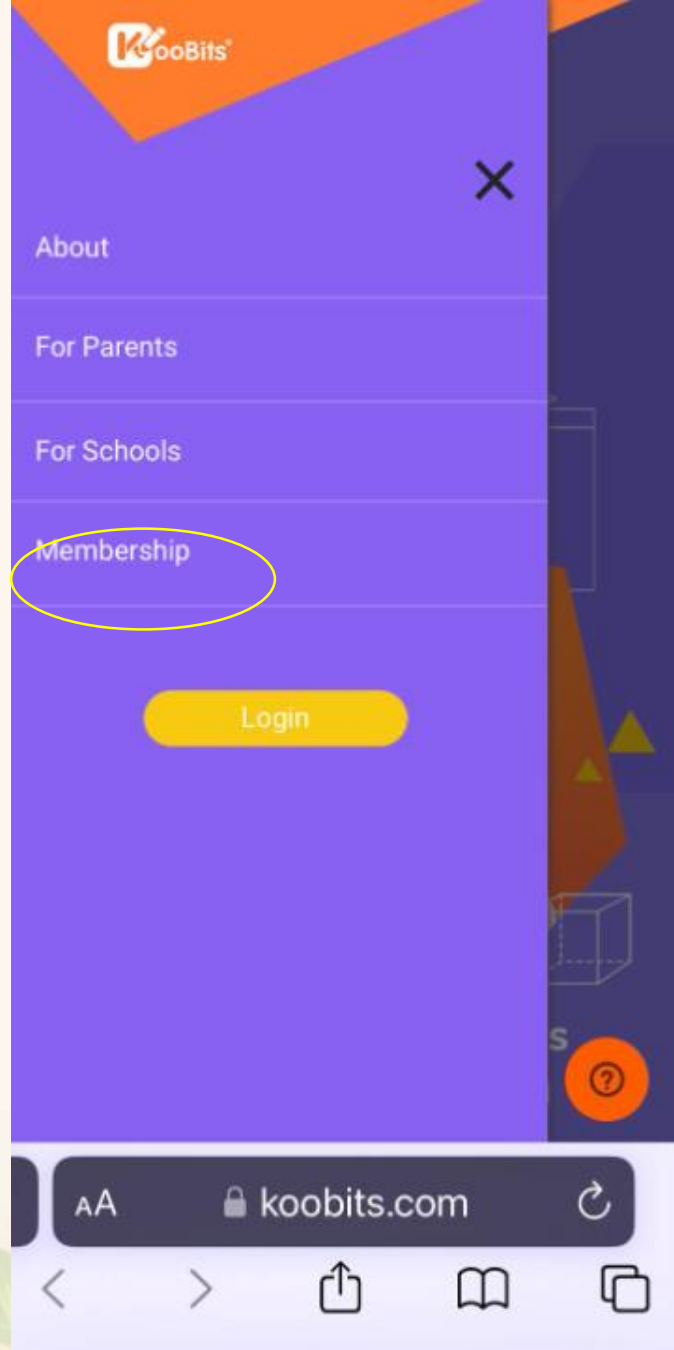
Please go to your browser and log into the following website.

Website	<b>www.koobits.com</b>
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Please refer to the laminated card placed on your table.

Example of login ID:

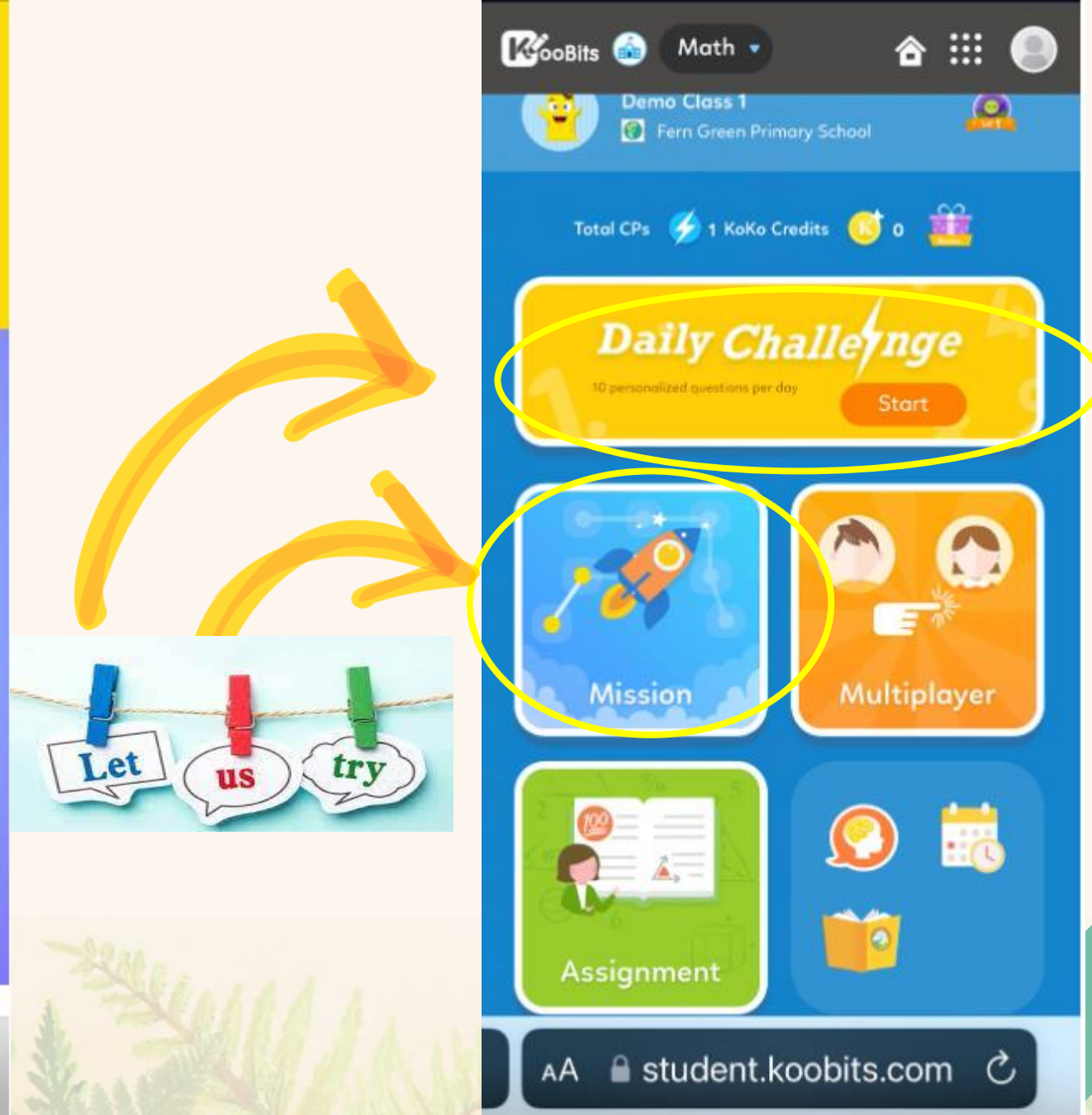
Login IDs	<b>fgps.class1-1</b>
Password	koobits







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**For coming**

**For your kind  
attention**

**For playing an important  
role in your child's  
learning journey**



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