

# Raddlebarn's Curriculum

## Newsletter: Maths



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Hello and welcome to our latest curriculum newsletter, this time with a focus on maths.

In this issue you'll find important information about maths at Raddlebarn, including how it's taught, problem solving and reasoning and rapid recalls as well as information on TTRockstars and the year 4 multiplication check.

What do the children really think about maths at Raddlebarn? Keep reading to find out the latest attitudes from our pupil voice.

Thank you for taking the time to read it. If you have any questions feel free to get in touch. Miss Morris

### Maths in the National Curriculum

The mathematics curriculum at Raddlebarn is rooted in a triple emphasis on fluency, reasoning and problem solving, through which we aim for all children to build a deep understanding of concepts so they can apply their skills fluently and flexibly in a variety of familiar and unfamiliar contexts. We aim to encourage and develop their security and confidence in the subject, which is a valuable skill for life-long learning. To complement our school's mission statement: 'Success for all', we encourage children to see themselves as mathematicians and firmly believe everyone can find success through maths enquires, investigations and problem solving.

### The National Curriculum for maths aims to ensure that all pupils:

- Become fluent in the fundamentals of mathematics, including through varied frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- Reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing like an argument, justification or proof using mathematical language
- Can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions

### Pupil voice

Our children were resoundingly positive about maths, with lots of children commenting that maths is their favourite subject.

*'Every day, in the morning, we do Rapid Recall to help us remember more.'*

*'We draw place value grids, bar models and part whole models to help us work out the answer.'*

*'Assessment for learning helps my teacher to understand what I already know about a topic.'*

### How we teach maths

At Raddlebarn, we follow White Rose Maths scheme of learning. A scheme of learning is a clear, time-linked plan for learning. The schemes are written for year groups and cover the whole school year of learning.

White Rose maths provides fluency, reasoning and problem-solving questions to use in the classroom. Our teachers work hard to adapt the resources as necessary to ensure each child makes good progress. We compliment this scheme through the selection of high-quality problem solving and reasoning questions, from a range of sources.

## Rapid Recall

As teachers (and parents) we know that when learning is new, the amount of information that children's brains can hold at one time is high.

We therefore need to regularly revisit previously taught content which is why we have introduced 'Rapid Recall' to our maths lessons this year.

At the start of maths lessons, the children are given a few questions to answer from maths topics they have previously covered with the aim of this being that children know more and remember more.

1.12.22  
RR

1) Complete the number line.  $12 \times 5$

18   22   30   32   38

2) Write two subtractions to check this addition.  
 $423 + 319 = 742$

3) Increase 492 by 134

4) Mo has this amount of money.  
He wants to buy this packet of sweets.  
How much more money does Mo need?

Rapid Recall (RR) example from Year 3

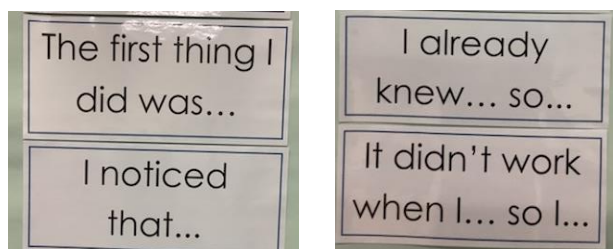
## Stem sentences

Stem sentences are included on our maths working walls to help learners:

- Express a key concept
- Generalise a key concept
- Provide a template for discussions or explanations

In maths, stem sentences include accurate mathematical vocabulary in a highly structured sentence that provides children with a way to communicate their ideas with mathematical precision as well as clarity. Each time learners repeat a stem sentence correctly, it helps embed the concept. We use stem sentences to scaffold and develop your child's reasoning skills.

Check out the examples below. Could you use any of these with your child?



## Times tables

At Raddlebarn, we strive for your child to be fluent in recalling and applying their times tables. Being able to do times tables is really important as it makes lots of other bits of maths easier. It also helps with lots of things in everyday life.

### How can I help my child?

Practise, practise, practise!

At Raddlebarn we are big advocates of TTRockstars. Each child has a username and password that enables them to access this online resource (please ask your teacher if you've forgotten).

TTRockstars efficient algorithm selects target questions for your child to practise and make progress.

I monitor weekly usage and award a KS1 and KS2 certificate for the most minutes played. So far this year, we've had some KS1 children playing for more than 100 minutes a week and some KS2 children racking up more than 300 minutes in a week – WOW!

Each classroom has a Rockstar hero board and classes are encouraged to hold their own award ceremonies – your children love hearing their names called out as hero of the week! Ask your children about TTRockstars, or even better – get them to teach you how to use it!

<https://ttrockstars.com>

### Other recommended resources:

<https://www.topmarks.co.uk/maths-games/hit-the-button>

<https://www.bbc.co.uk/teach/supermovers/times-table-collection/z4vv6v4>

## Year 4 Multiplication Check

The purpose of the check is to determine whether your child can fluently recall their times tables up to 12, which is essential for future success in mathematics. It also helps us at Raddlebarn identify whether your child needs additional support.

The check takes place in June 2023 and on average, should only take about 5 minutes for your child to complete.

