

MATHS

A T C A R R



**CARR JUNIOR
SCHOOL**

Aim High, Shine Bright

Greetings, Math Enthusiasts!

Welcome to the first edition of 'Maths at Carr' your go-to newsletter for many things maths related on the Key Stage 2 journey!

In this edition:

The importance of Times Tables

Bar Models

Challenges

How to help at home



Times Tables

One of the key parts of maths in Key Stage 2 are times tables. Regular practise and 'over-learning' these skills help in so many areas of maths, both now and in future life. Children can attend TT Rockstars Club every day at lunchtime, and there is weekly homework set on TT Rockstars. Please encourage your child to do at least the minimum homework requirement.

What is the bar model in math?

The bar model is used by drawing out a bar to represent the known and unknown quantities in a given problem.

Encouraging a child to use the bar model in a problem can help them to understand conceptually what math operation is required from the problem, and how each part combines to make the whole.

Teaching the Four Operations with Bar Models

ADDITION

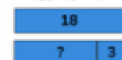
$3 + 4 = ?$



$3 + 4 = 7$

SUBTRACTION

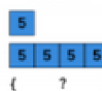
$18 - 3 = ?$



$18 - 3 = 15$

MULTIPLICATION

$4 \times 5 = ?$



$4 \times 5 = 20$

DIVISION

$27 \div 9 = ?$

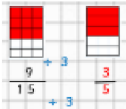


$27 \div 9 = 3$

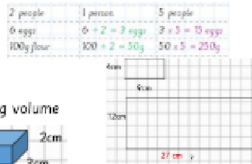
Adding, subtracting, multiplying and dividing fractions



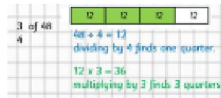
Simplifying fractions



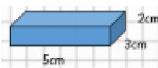
Using scale factors



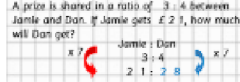
Finding a fraction or a percentage of a number



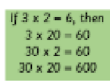
Calculating volume



Calculating ratio



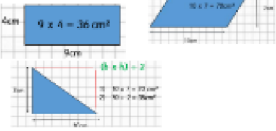
Using known facts



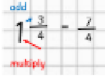
Using algebraic rules



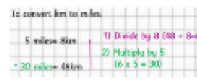
Finding the area of rectangles, triangles and parallelograms.



Converting between mixed and improper fractions



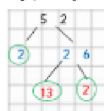
Convert between miles and kilometres



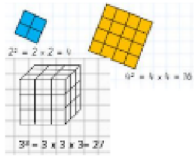
Short and long division



Finding prime factors



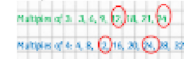
Square and cube numbers



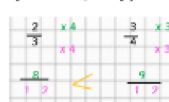
Factors and common factors



Multiples and common multiples



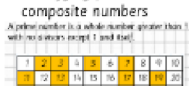
Ordering and comparing fractions



Short and long multiplication



Identifying prime and composite numbers



@SarahFarrellKS2

Having great times table knowledge helps with all of these areas of maths! These are all covered by the end of Year 6.

Maths at home

There are so many ways that you can incorporate maths at home without any resources or money needed. A great way of finding a plethora of free resources and activities is to google search 'National Numeracy Family Maths Toolkit'.

Other key areas of maths you can cover at home include:

- Time (reading all types of clocks, working out how long things take/last)
- Measuring (cooking, making things, reading scales, different units of measures)
- Money (how much, change, understanding value, estimating the total cost of shopping)

Year 3 and 4

3 boys played a computer game. They scored 45 points, 36 points and 11 points. What was the total points they scored?



Jinnie is 134cm tall. Her sister is 107cm tall. How much taller is Jinnie than her sister?



Have a go at these challenges. Do the bar models help you visualise the question rather than just the words?

Year 5 and 6

After John bought a magazine subscription costing £30 for the year from his birthday money, he had 4/7 left. How much did John receive for his birthday?



Mina's painting is 3 times longer than Stanley's painting. If Mina's painting is 72cm long, how long is Stanley's painting?



Have a go at these challenges. Do the bar models help you visualise the question rather than just the words?

