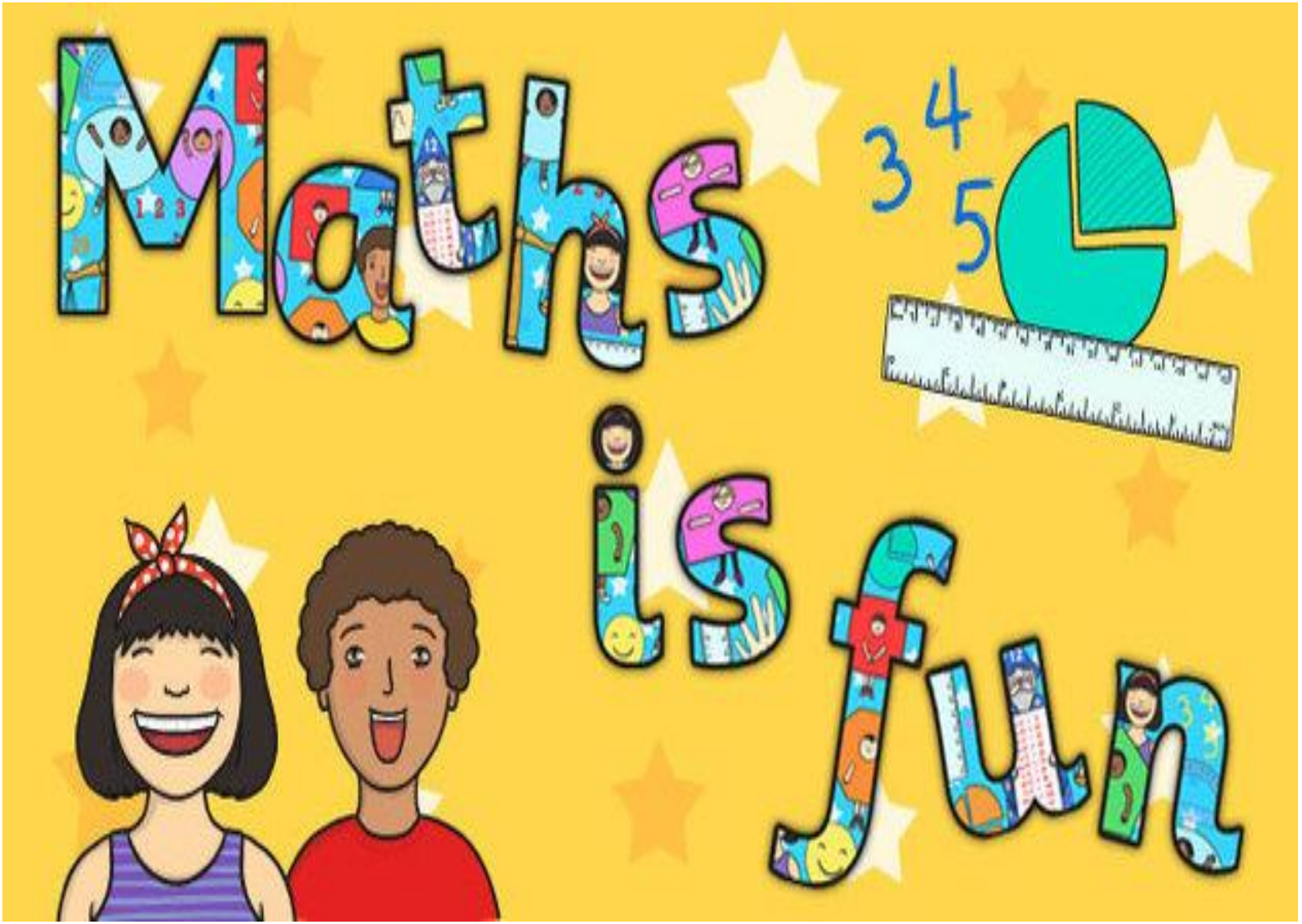

Maths
is
fun
3
4
5

- Aims for today

1. To introduce Mastery Maths
2. To give you ideas to help children with mathematics at home.
3. To allow children to apply what they learn in mathematics to real life.

What is Mastery?

- I know how to do it and can show someone else.
- It becomes automatic and I don't need to think about it- for example driving a car •

Teaching for Mastery

- Continue to have high expectations for every child
- Problem solving and reasoning is central. Connections are made by the children, not us.
- Challenge is provided through an increased depth, rather than content.
- Children are encouraged use practical resources and pictures.
- Explain how they solved a mathematical problem.
- Talk in sentences using mathematical vocabulary.

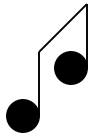
five

1 2 3 4 5 6 7 8 9 10

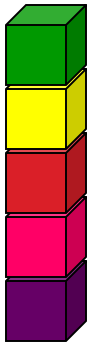
6 take away 1

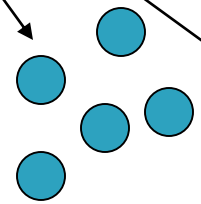
5

Five little ducks went swimming one day

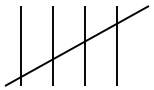


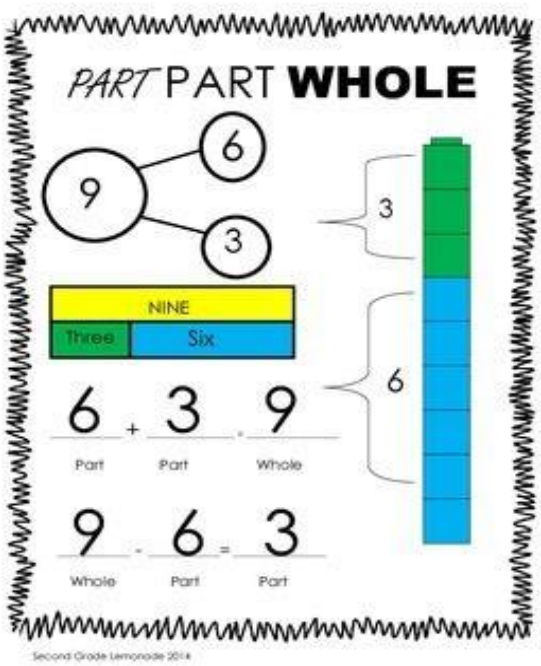
Over the hills and far away

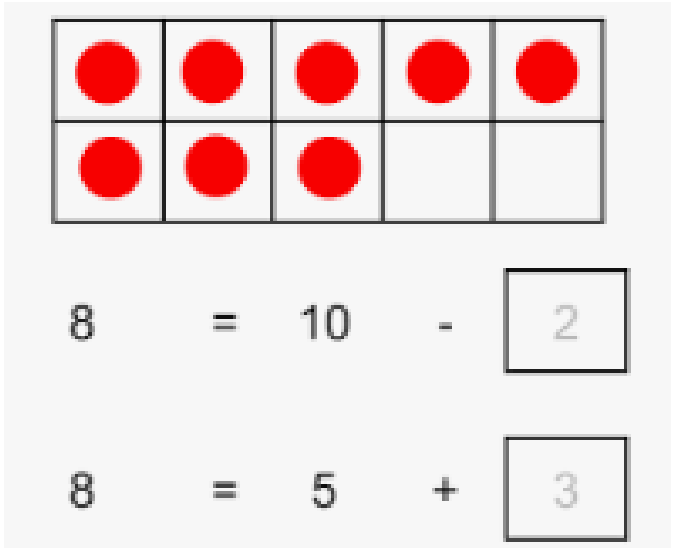


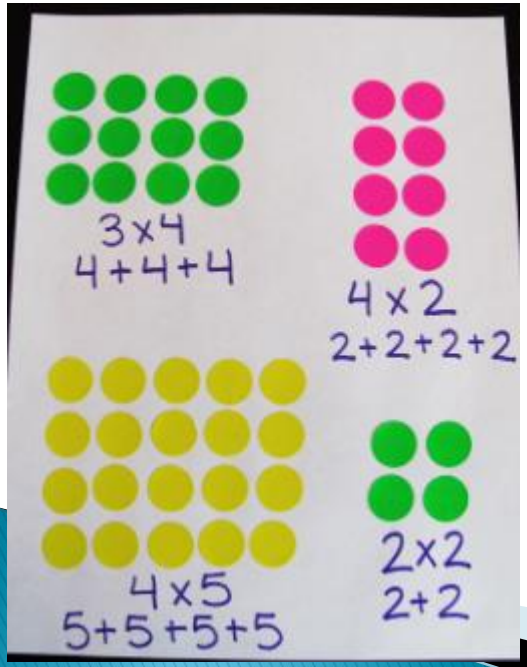


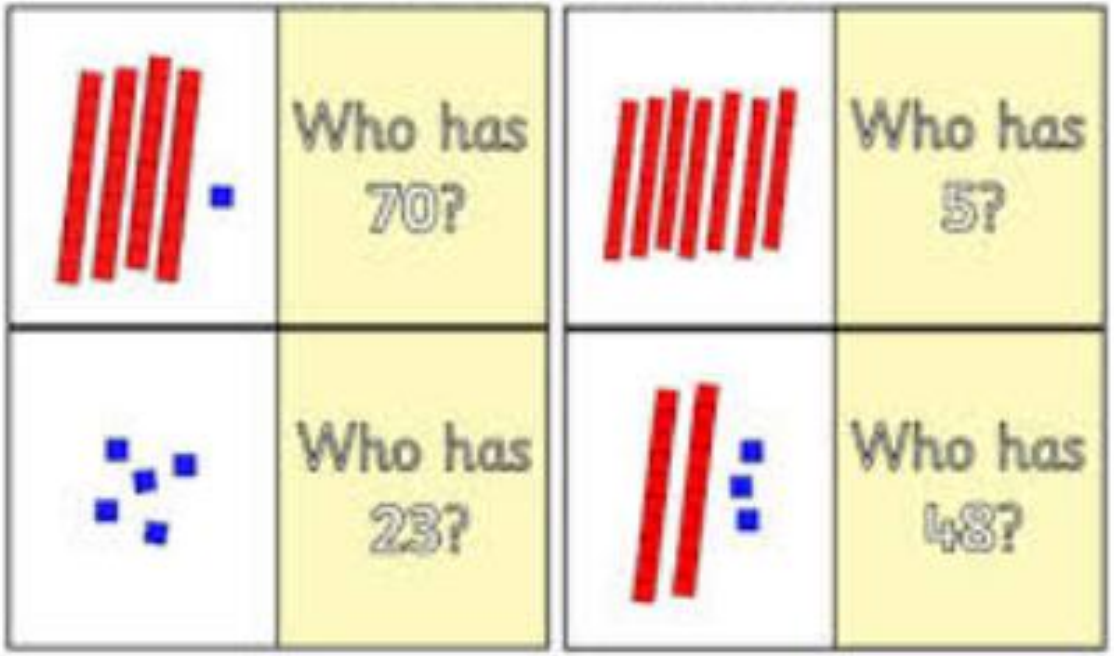
3 + 2




PART PART WHOLE
9
6
3
3
NINE
Three
Six
6
6 + 3 = 9
Part Part Whole
9 - 6 = 3
Whole Part Part
Second Grade Lemonade 2014

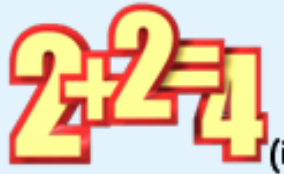

8 = 10 - 2
8 = 5 + 3


3x4
4+4+4
4x2
2+2+2+2
4x5
5+5+5+5
2x2
2+2


Who has 70?
Who has 5?
Who has 23?
Who has 48?

THE FOUR STRANDS OF MATHEMATICAL EXPERIENCE

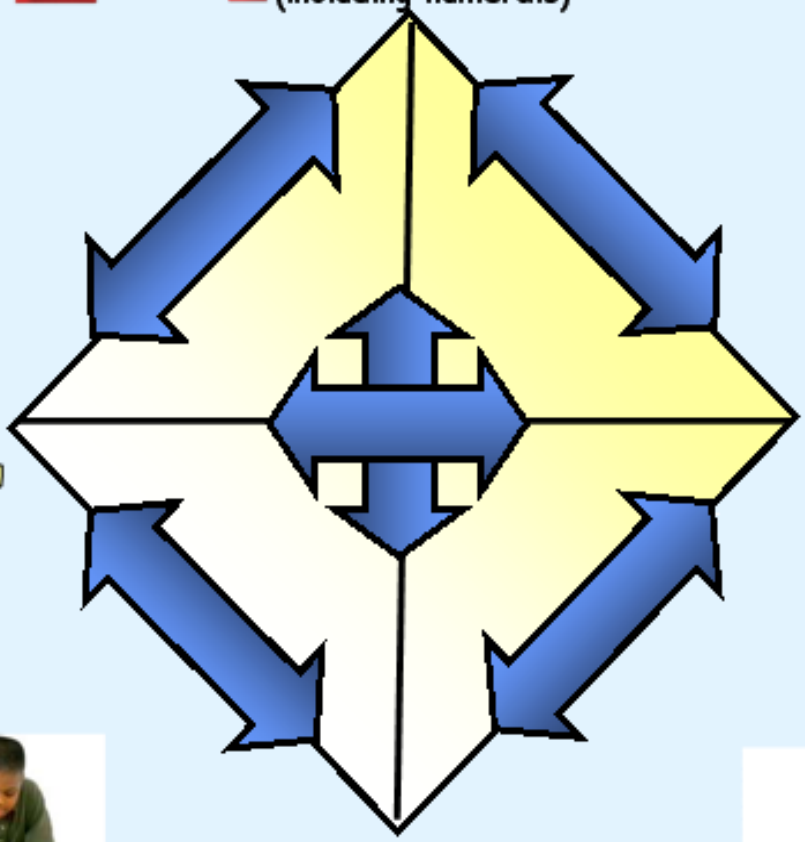
It is the development of networks of connections between these Strands that allow concepts of number to be developed



SYMBOLS
(including numerals)

"more than"
LANGUAGE AND MATHEMATICAL VOCABULARY
(including number names)
"one, two, three..."

PICTURES AND REPRESENTATIONS



CONCRETE EXPERIENCES AND MATERIALS

Why is vocabulary, or 'Maths Talk' so important?

- Supports the aims of the national curriculum (become fluent, reason mathematically and solve problems)
- Enriches our children's vocab – particularly important at our school and since pandemic
- Links question to answer (rather than child saying "8" in response to question, saying "I know that 1 more than 7 is 8")
- Connects schemas
- Allows confidence in problem solving later on

"There are 6 tens and 2 ones. The number is 62." "14 shared into 2 equal groups is 7." "Part of the number is 3. Part of the number is 5. The whole number is 8."

Nursery and Reception

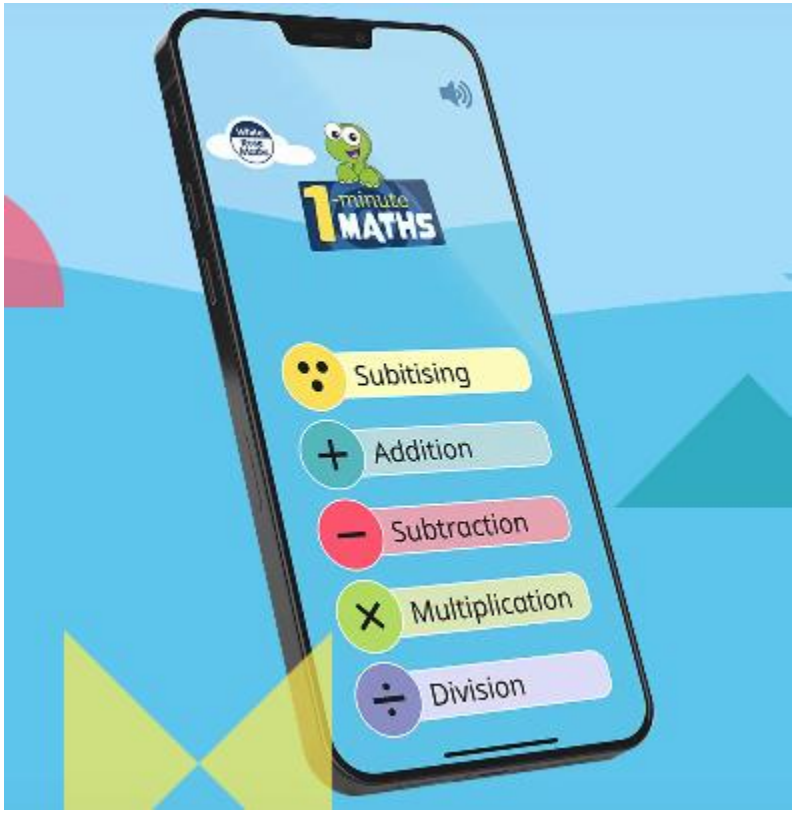
- Counting up to 10 and 20
- Using quantities and objects.
- Subitising
- Place numbers 1-20 in order.
- Identifying one more or one less than a given number
- Simple addition and subtraction

Year 1

- Count to 100 forwards and backwards
- Read and write numbers to 100 in numerals
- Write numbers 1 to 20 in words.
- Count in multiples of twos, fives and tens
- Identify and represent numbers
- Compare numbers
- Calculation- Addition, subtraction, multiplication and division

Year 2

- Read and write numbers to 100 in numerals and words.
- Count in steps of 2, 3, 5 and 10.
- Recognise the place value in a two digit number.
- Compare and order numbers from 0 up to 100 and use <,> and = signs
- Use place value (tens and ones) and number facts to solve problems.
- Identify, represent and estimate numbers using different representations.
- Addition, subtraction, multiplication and division (including commutivity)



All of the objectives mentioned and more can be accessed for free on the White Rose 1 Minute Maths app. This is a fun one minute challenge covering these 5 areas at different skill levels. It is great to use if it is done so **in addition** to the practical, pictorial and multi sensory activities you are about to see!

Download on the App Store

GET IT ON Google Play

Available on amazonkindle

Maths workshops

Nursery & Reception- Silver Class

Year 1 – Turquoise Class

Year 2- Gold Class

(Do not forget to take the hand outs!!)

- Back in the hall, when you hear the bell.