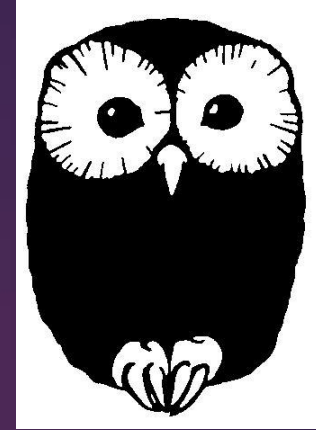




Maths workshop for parents

BURCHETTS GREEN INFANT SCHOOL

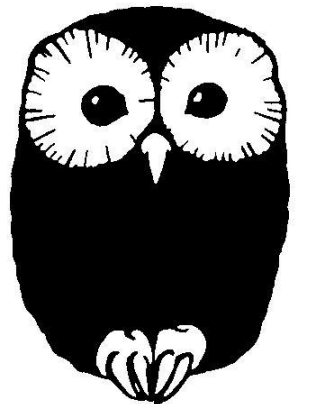
TUESDAY 29TH NOVEMBER 2022

Teaching children to master number. What does this mean?

- ▶ One curriculum where all children are entitled to learn key concepts
- ▶ Focusing on depth rather than breadth to ensure all children have deep and secure understanding of early number
- ▶ Making sure that every child can achieve in maths
- ▶ We want our children to understand what they are doing rather than just memorising a method.

How do we teach children to master number at BGIS?

- ▶ We use a Concrete, Pictorial, Abstract way of teaching in all year groups.
- ▶ Concepts are taught in a series of sequenced small steps
- ▶ Each lesson comprises elements of fluency, reasoning and problem solving
- ▶ Stem sentences used in all year groups to embed learning



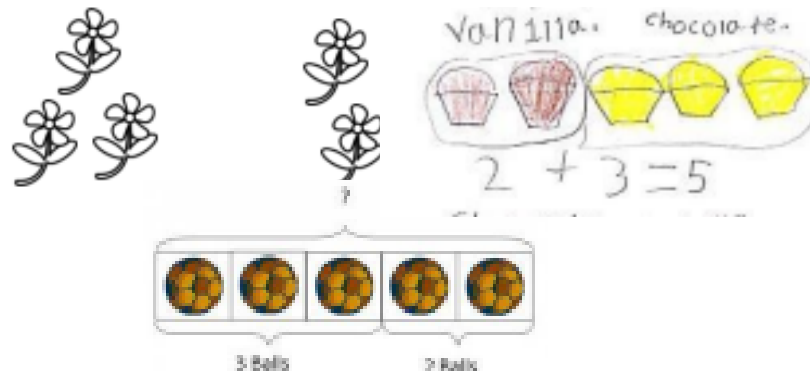
Concrete, Pictorial, Abstract

► How can you show me the answer to $3 + 2 = ?$

CONCRETE



PICTORIAL



$2 + 3$



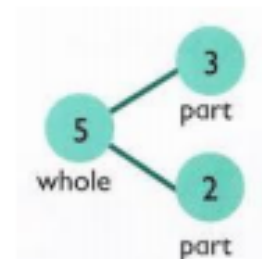
$3 + 2$



ABSTRACT

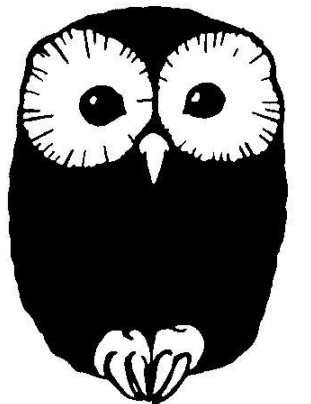
$$3 + 2 = 5$$

Place the larger number in your head and count on the smaller number to find your answer.



Key concepts

- ▶ Subitising
- ▶ Noticing- what do you see?
- ▶ Counting
- ▶ Learning of number facts
- ▶ Composition of numbers



Understanding the part, part, whole method

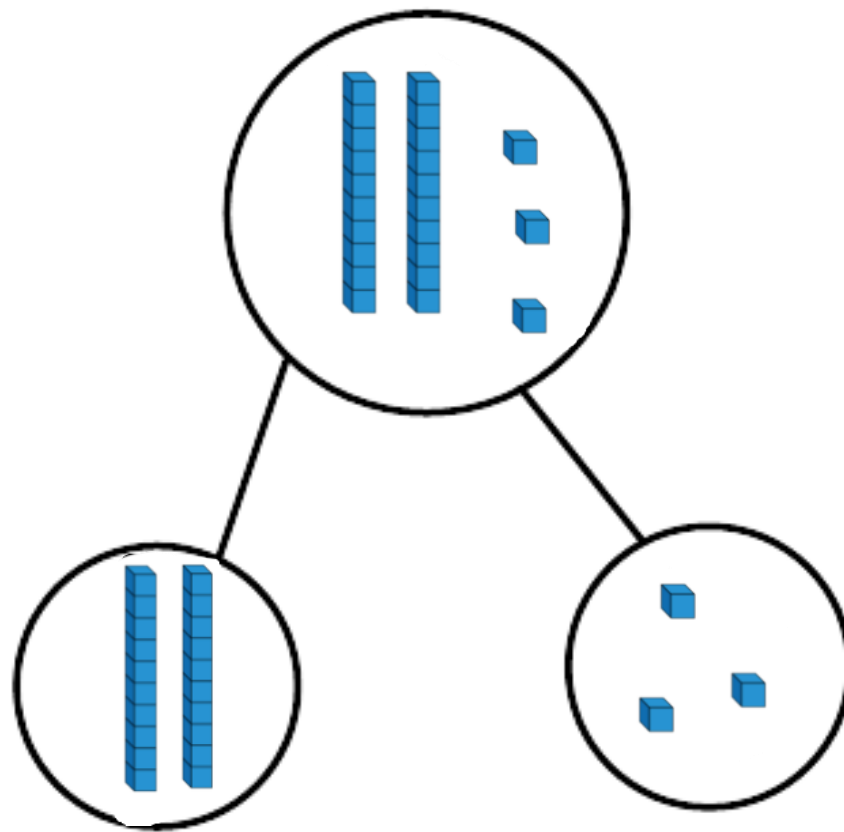
Whole



Part



How can you show me the number 23?



What we use in school:

Manipulatives

- ▶ Numicon
- ▶ Rekenrek
- ▶ Cubes
- ▶ Double sided counters
- ▶ dice
- ▶ Coins
- ▶ Diennes
- ▶ Place value cards

Images

- ▶ 5 frames
- ▶ 10 frames
- ▶ Part/part/whole models
- ▶ Number lines
- ▶ 100 square
- ▶ Pictures

So how can you help your child with maths?

- ▶ Play games!
- ▶ Notice maths in every day life- counting while walking, subitising what you can see, shape hunt, get a sticker if you notice the clock showing half past, o'clock or quarter past, get real coins and play shops
- ▶ Any help and support you can give your child in practising number bonds at home will help them grow in confidence to tackle their maths in a positive and confident way.
- ▶ **Children should be able to recall the facts rapidly and apply them fluently and accurately.**
- ▶ 10 or 20 pegs on a hanger/line
- ▶ Pasta/toy cars in a box with a line, shake it and say the calculation you make

Useful Websites

White Rose Maths App

- ▶ Subitising
- ▶ Addition & subtraction
- ▶ Multiplication & division

Top Marks

- ▶ Hit the Button
- ▶ Counting games
- ▶ Number fact families
- ▶ Maths - Topmarks Search



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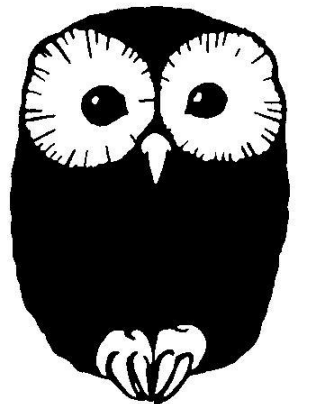
Understanding how to
make links is as important as
memorising the facts.

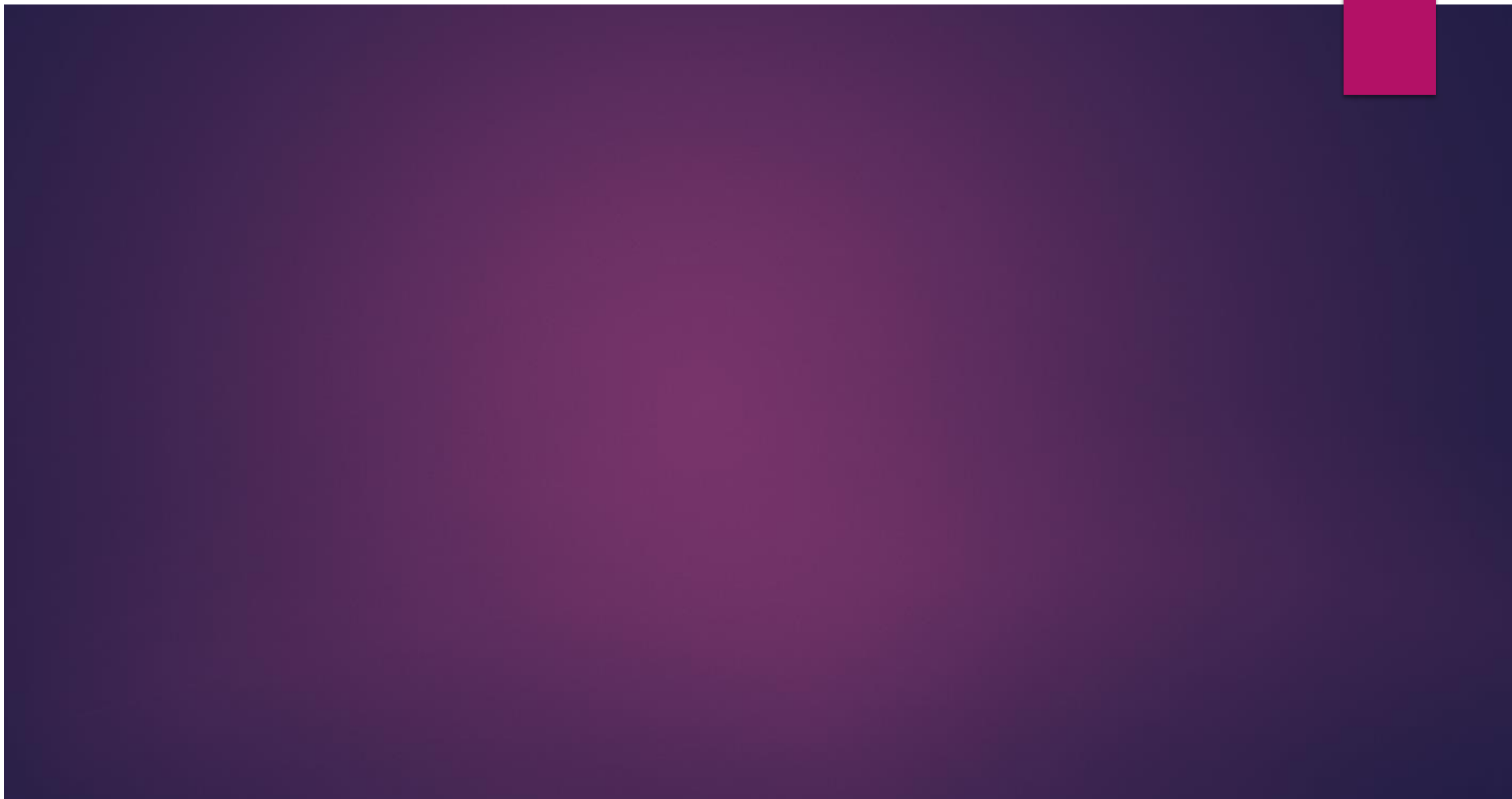
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JULIA ANGHILERI,

TEACHING NUMBER SENSE

Thank you for coming
Any questions?





How do we teach children to master number at BGIS?

- ▶ We use a Concrete, Pictorial, Abstract way of teaching in all year groups.
- ▶ We teach them there may be several ways to arrive at the same answer.
- ▶ We also teach them that there may be several answers for one question.
- ▶ We encourage our children to share their strategies and thinking in maths lessons.
- ▶ We use stem sentences to explain and embed our learning



My teacher
thought I was
smarter than I
was – so I was.

Six-year-old