

TEACHING PRIMARY MATHS REMOTELY

*Building Reasoning and Problem Solving
into Remote Learning*

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Guest Speaker: Gareth Metcalfe



WHAT DO REAL MATHEMATICIANS DO?

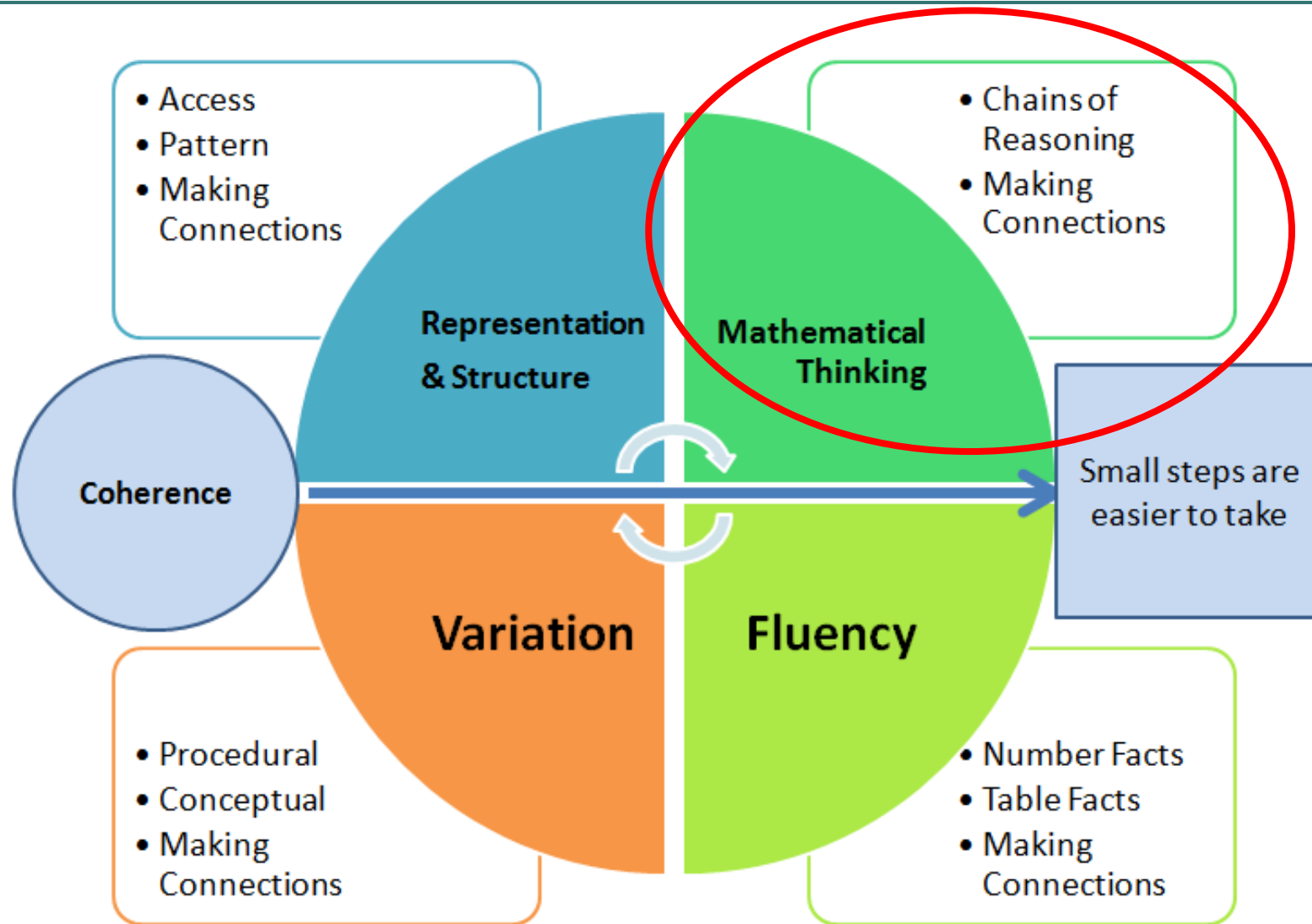
A Y1 teacher was impressed by the insight of a student whose response was **'They solve the world's hardest problems'**.

The Mathematics Task Centre Project found out what professional mathematicians do by asking some. One response was:

'First give me an interesting problem.'

Now there's a guide for developing mathematics curriculum.

THE 5 BIG IDEAS OF MASTERY



Mathematical Thinking
 If taught ideas are to be understood deeply, they must not merely be passively received but must be worked on by the student: thought about, reasoned with and discussed with others.

Reasoning is *fundamental to knowing and doing mathematics*. Some would call it *systematic thinking*.

Reasoning enables children to make use of their other mathematical skills and so reasoning could be thought of as *the 'glue' which helps mathematics make sense*.

NATIONAL CURRICULUM:
PURPOSE OF STUDY

A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.



It is what real mathematicians do...

INTRODUCING GARETH METCALFE



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I See Maths

learning that sticks




A TREASURE TROVE OF RESOURCES


Free Home Lessons

I SEE REASONING - KS1
TASKS FOR ENRICHING MATHEMATICAL TALK

Explain the mistake
 $5 + 3$ 5, 6, 7


Different ways
 $9 + 8 =$ 

$9 + 8$ is the same as:
10 + 10 take away
Double add 1
Double take away 1
Other: _____

True or false? ✓ x
Is it $\frac{1}{2}$ blue? 

Make 6p, Make 60p

This video shows a range of calculation challenges involving money: finding ways of making 6p, 20p and 60p. Very accessible, but finding all the possible ways of making 60p using 5 coins is a challenge!






I SEE PROBLEM SOLVING - LKS2
MATHS TASKS FOR TEACHING PROBLEM-SOLVING



I SEE REASONING - LKS2
TASKS FOR ENRICHING MATHEMATICAL TALK

Explore
There are triangles and left over.



Rearrange the same number of matchsticks.
There are squares and left over.
There are _____ and left over.

Which picture?
Tim and three friends get the train.
The total cost is £24.
How much does each person pay?

£2L
£8 £8 £8

£2L
£6 £6 £6 £6

Which bar model represents the question correctly?

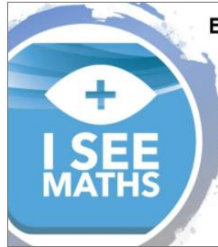
Is it the same?
 $10 \times 2 \times 8$ 24×4
 $12 \times 4 \times 4$ $4 \times 3 \times 8$
Is 12×8 the same as...

An Inspirational Blog

JUNE 19, 2019 | MATHS IDEAS

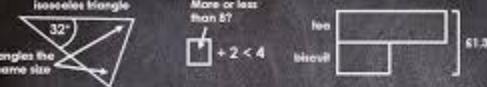
'Early Number Sense: Helping at Home' video series – your thoughts!

I passionately believe in the importance of children's early maths experiences. My **training** and **resources** are designed to help children become fluent with small quantities, develop counting skills and learn to reason mathematically.

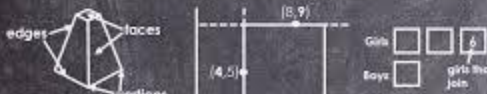


Early Number Sense: Helping at Home

A free series of videos to help parents support their children's early mathematical development.



I SEE PROBLEM SOLVING - UKS2
MATHS TASKS FOR TEACHING PROBLEM-SOLVING



ANY QUESTIONS?

Thank you for joining us!

The recording will be circulated in the next few days.



SAVE THE DATE

WED 3RD MARCH 4PM

A FOCUS ON FLUENCY

Guest Speaker:

Clare Christie

SLE from Bristol &

Primary Team Member

Boolean Maths Hub

FULL DETAILS TO FOLLOW SOON...



Clare Christie



MATHSHUBS
SUSSEX

