

## About the Bond Blocks Addition & Subtraction Kit

You are receiving this letter because your child's class will be utilising the Bond Blocks Addition & Subtraction Kit as part of their class teaching.

Bond Blocks fill the **missing link** to help students move from concretely **counting by ones** to abstractly adding with numbers and symbols.

Bond Blocks is informed by research using evidence-based methodology, developed by Australian teacher Narelle Rice together with Dr Paul Swan.

We will use the Bond Blocks Addition & Subtraction Kit to develop:

- Fluency with number bonds, leading to recall.
- Addition and subtraction to 20 and beyond.
- Robust understandings of addition and subtraction concepts, and relationships between them.
- Flexible, efficient calculating strategies.
- Number concepts including place value.
- Mathematical reasoning and problem solving.

### Addition & Subtraction Kit

**Concrete**

Most manipulatives can be counted by ones.





Many students don't progress from counting by ones.

### Bridging the Gap

**Representational**

**Bond Blocks** are a physical manipulative to support bar-model maths.

**The Missing Link to Abstract Calculation**  
Bond Blocks cannot be counted by ones.

- Learn number bonds (facts) in a self-correcting way.
- Represent and relate addition and subtraction using Part-Part-Whole.




**Abstract**

Adding and subtracting using numbers and symbols.

**Part + Part = Whole**

$3 + 2 = 5$

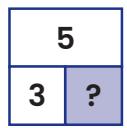
$2 + 3 = 5$

**Whole - Part = Part**

$5 - 3 = 2$

$5 - 2 = 3$

Extend with algebraic thinking.



$5 - ? = 3$

$3 + ? = 5$

## Support for Parents

The Bond Blocks Addition & Subtraction Kit is made up of over 100 sequenced activities. Each activity is completed on an A3 board and is modelled in a **video** on the activity's matching webpage. You can view these without a logon. See [www.bondblocks.com](http://www.bondblocks.com)



**Narelle Rice**

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