

Models and representations to support the teaching of number bonds

These are the representations used by Numbots to support the teaching and learning of number bonds.

At Hanham Primary Federation, we primarily focus on these representations in our maths and Number Sense lessons.

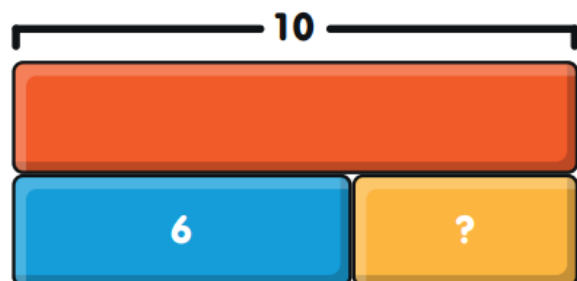
Ten Frames

Makes counting values simpler. We can use them to make and split numbers in relation to 5 and 10. They help form the basis for understanding place value in the future.



Bar Model

Remove a number for problem solving opportunities across all operations (+ - x ÷)



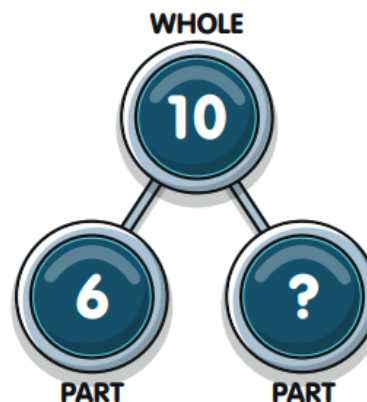
Bead Strings

Usually consists of 10, 20 or 100 beads on a string, grouped by colour. They allow children to move the beads whilst counting and visualising groups of ten.



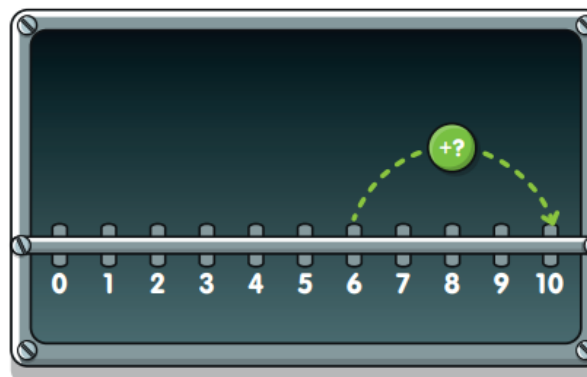
Part Part Whole Model

Within the part whole model, you can use real objects, concrete objects, pictures or numbers. The two parts combine to make the whole and can support with addition and subtraction



Number Line

Can be used to count forwards and backwards or to identify number bonds and patterns.



Dienes/Base 10

Can be used practically or drawn to support addition and subtraction.

