ABOUT
When we learned to count from keny to maar-maar we were fascinated by the embedded maths within the structure and instantly thought of a traditional Montessori Number Rods, a learning tool that helps children spatially visualise numbers.

This block set helps children (and adults) to understand the structure of the Noongar number system and is a tactile and easy way to learn how to count to from keny to maar-maar.

Noongar

MATERIALS
• 1x 30x30mm square piece of wood, at least 1.7m long
  - the piece we purchased was a 2.4m length in pine
• 1x Drawstring Calico Bag
• 1x Can MTN Gesso Primer
• 2x Stylefile Markers in your chosen colours (for decorating the bag)
• 10x MTN Water Based Spraypaint in your chosen colours
• 1x MTN Water Based Paint Marker in your chosen colour (should contrast all paint colours)
• 1x MTN Water Based Spraypaint Clear Matte Varnish

CUT THE WOOD
• 2x 30mm in length (keny)
• 6x 60mm in length (koodjal)
• 2x 90mm in length (daambart)
• 7x 150mm in length (maar)

Sand any rough edges ready for painting.

DECORATE THE BAG
• Slip a piece of cardboard in the bag to prevent the markers bleeding through to the back side
• Using the Stylefile Markers trace 1 of each of the 4 length blocks and write the corresponding name
  - do this before you paint the blocks incase you get any marker on them
  - we used dark brown to trace the blocks and black to write the names

INSTRUCTIONS
• Print the last page of this PDF
• Cut in half and tack with glue back to back
• Laminate
PRIME THE BLOCKS
Paint the raw wood with a primer to seal the wood and prevent the coloured paint soaking in and looking uneven. We used MTN Gesso Primer which is a thick covering water based primer with no harsh solvents.

PAINT THE BLOCKS
You will need to put the puzzle together and paint each number in a different colour. Some numbers are created with 1 block, and some are made up of 2 or 3 blocks. We have listed the numbers below with the MTN Water Based Spraypaint colours we used and the block sizes needed.

Keny - Titanium Light - 30
Koodjal - Grey Green Dark - 60
Daambart - Raw Umber - 90
Koodjal-Koodjal - Grey Green Pale - 60+60
Maar - Yellow Ochre - 150
Maar-Keny - Raw Umber Deep - 150+30
Maar-Koodjal - Naples Yellow Deep - 150+60
Maar-Daambart - Grey Green - 150+90
Maar-Koodjal-Koodjal - Burnt Umber - 150+60+60
Maar-Maar - Grey Green Deep - 150+150

MARK YOUR STARTING POINTS
• Put the blocks together as per the instructions and diagram on the next page
• With your paint marker, mark a visible dot on the left end of each row

VARNISH YOUR BLOCKS
We added a final coat of varnish to help protect our block set. We used MTN Water Based Spraypaint in Matte Varnish.
Instructions

• Order the blocks into piles of the same size

• Use the bag to learn the name for each block

• Match the blocks that are the same colour (so you have 10 different piles)

• If there is more than 1 block in the pile join them together to make 1 length

• Order the lines of colour from shortest at the top to longest bottom, taking care to have any dots on the ends of the blocks visible on the left

• Now, remembering the names you learnt for each block, count from keny to maar-maar