# Numberblocks – Once upon a time

**ABC ME screening details: Tuesday** 26 May 2020 at 10:00am

This episode can also be viewed on [ABC iView](https://iview.abc.net.au/show/numberblocks).

**Key learning areas:** mathematics

**Level:** lower primary

**About:** Are you sitting comfortably? Then we'll begin a bedtime story all about the first five Numberblocks.

## After the episode

1. We met One, Two, Three, Four and Five in Numberblocks today. Share what you learnt about them with a friend or family member.
2. You are going to play a game using the numbers that we met! The game is a version of ‘Dotty 6’. To play you will need to make a set of number cards (1,1,2,2,3,3,4,4,5,5) and a playing board like below. You will also need two different coloured markers and a friend or family member to play with you.

| **To win this game a player makes a row of boxes, with 6 dots in each box.** | A 3 by 3 grid with the numbers 1 to 5 as playing cards |
| --- | --- |

**How to play:**

* Put your number cards in a pile. Take turns to turn over a card, write your number down and draw that number of dots in a box.
* When you reach 6 dots the box is full. You can write 6 in the box so that you remember. You cannot split your dots up.
* You can add on to each other’s dots, you don’t have to fill the boxes separately.
* The player who creates a row of full boxes wins, like in noughts and crosses it could be in a row, column or diagonally!

| Here is a picture of the game being played. Can you spot where each player has chosen to draw their dots? Which boxes are full? | A 3 by 3 grid with dots. Similar to noughts and crosses |
| --- | --- |
| The player with the red marker won this round by drawing a red dot in the top right corner box to make 6 dots, which then created three filled boxes. | A game similar to noughts and crosses |

1. Your turn to play! During the game you might think about these questions to help you:
* Where is the best stop to draw this number of dots?
* How many more dots I need to draw in this box to make 6?
* What will my friend do if I draw my dots here?

Adapted from <https://nrich.maths.org/7337>

If you would like to see another version of this game being played you can watch it on the [Thinking Mathematically site](https://sites.google.com/education.nsw.gov.au/get-mathematical-early-stage-1/contexts-for-practise/dotty-six) (internet access required).

**Follow-up activity:** Can you think of a different way to play the game? Could you draw more boxes or play with larger numbers? Have a go and teach your version to a friend.

# NSW Teacher notes

This is an optional standalone resource that could supplement student learning. The activities align with syllabus outcomes across stages and can be modified to meet the needs of your students. Students can complete the activities while learning at home and in the classroom. All activities can be completed without access to the internet or a device. Teachers could collect student work to offer feedback and as evidence of learning.

## Learning intentions

* To use a range of mathematical skills and knowledge when playing a game.

## NSW Mathematics K-10 Syllabus outcomes

|  |  |  |
| --- | --- | --- |
|  | Early stage 1 | Stage 1 |
| Working mathematically | describes mathematical situations using everyday language, actions, materials and informal recordings (MAe-1WM) | describes mathematical situations and methods using everyday and some mathematical language, actions, materials, diagrams and symbols (MA1-1WM) |
| Whole Numbers | counts to 30, and orders, reads and represents numbers in the range 0 to 20 (MAe-4NA) | applies place value, informally, to count, order, read and represent two- and three-digit numbers (MA1-4NA) |

[NSW Mathematics K-10 Syllabus](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/mathematics/mathematics-k-10) © 2012 NSW Education Standards Authority (NESA) for and on behalf of the Crown in right of the State of New South Wales. See the [NESA website](https://educationstandards.nsw.edu.au/wps/portal/nesa/mini-footer/copyright) for additional copyright information.