Numberblocks – Blast off!

ABC ME screening details: Monday 13 May, 2020 at 10:00am

This episode can also be viewed on ABC iView.

Key learning areas: Mathematics

Level: Foundation and Level 1

About: Ten promises to take the others on a trip to the moon, but blasts off on her own. How will they get there? Find out which pairs of numbers add together to make ten with the Numberblocks.
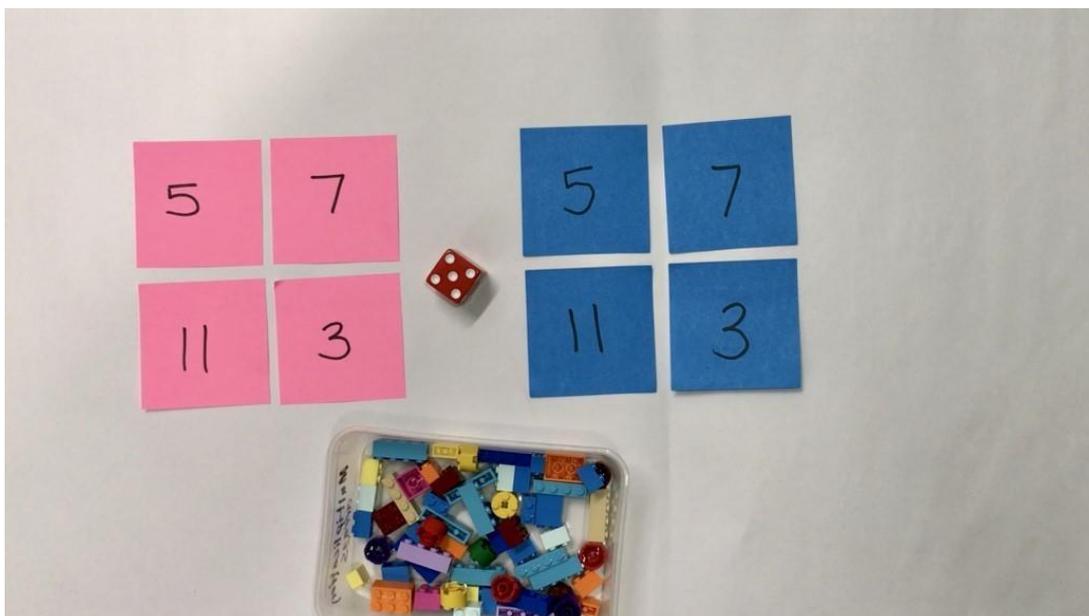
After the episode

1. In Numberblocks today, we learned some smaller numbers that can sit inside Ten. Let's play building towers to find smaller numbers that sit inside other numbers. If you would like to see the building towers game being played you can watch it here https://sites.google.com/education.nsw.gov.au/s1-maths-digital-resource-1/building-towers or follow the instructions.

You will need these items to play:

- number cards for each player with 5, 7, 11 and 3 on them.
- a dice
- some building bricks

Here is how to set up the game.
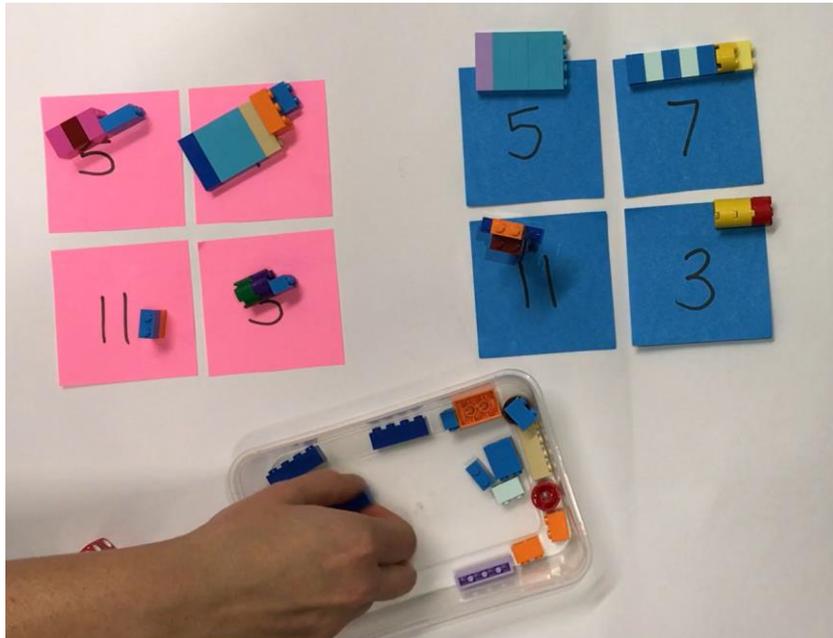
2. Time to play!

   Take turns to roll your dice and get that number of bricks to build up your towers.

   Towers can be built up in any way you choose.

   Build up your towers until one of you gets the exact roll to complete the last tower.

   Talk about how many you have, how many more you need.

   Here is a picture of some friends playing the game.

3. Try playing the game in reverse by starting with complete towers. Take away blocks for each roll, until there are no blocks left. You could also play the game with larger numbers. Did this change the strategy you used?

4. What did you find challenging about the game? What strategies helped you? Draw, write or share your thinking with a family member or friend.

Follow-up activity: Think of the tallest tower that you built. What numbers did you use to build the tower? Teach a friend how to play building towers.

Teacher notes

This resource contains self-directed learning activities that students can complete while learning at home or in the classroom. The activities align with the Victorian Curriculum F-10 and can be modified to meet the needs of your students. Teachers could collect student work for feedback and assessment.

Learning intentions

- To find smaller numbers inside larger numbers.
- To add numbers to reach a given total.
- To select and discuss different strategies.

Victorian Mathematics Curriculum content description

	Foundation	Level 1
Number and Algebra	Connect number names, numerals and quantities, including zero, initially up to 10 and then beyond (VCMNA070) Represent practical situations to model addition and subtraction (VCMNA073)	Represent and solve simple addition and subtraction problems using a range of strategies including counting on, partitioning and rearranging parts (VCMNA089)

Victorian Mathematics Curriculum achievement standards

	Foundation	Level 1
Number and Algebra	Students connect number names and numerals with sets of up to 20 elements. Students match individual objects with counting sequences up to and back from 20.	Students partition numbers and carry out simple additions and subtractions using counting strategies.