



The **Teaching Packs** Number Generator lets you pick random numbers based on the criteria that you have chosen. These include 'more than...', 'less than...', 'multiple of...', even, odd, negative numbers and decimals! It also includes a history option that shows a record of the numbers that have been generated.

Try using the number generator tool in some of the following ways...

- Generate a random number and ask children to think of different calculations that have that number as the answer.
- Generate a number and ask children to identify the place value of each digit.
- If you ever need to choose a child at random for a task, give everyone a number and let the generator pick one of those numbers.
- Use the 'Even' option and generate some numbers. What do the children notice about the numbers that are created? Repeat with the 'Odd' option.
- Generate two (or more) numbers and use these for addition, subtraction, multiplication and division calculations.
- Use the 'Multiple of...' option to review your children's knowledge of multiplication and division facts.
- Set your chosen properties (e.g. less than 100, more than 20, multiple of 5) and use the 'Hide' arrow to remove those rules from view. Generate random numbers and ask the children to work out the properties that you have set.
- Set up rules / options and remove the number from view (using the 'Hide' arrow at the top). Make a list of numbers that the generator might create.
- Show your children the tool and talk about what the word 'random' means. Use this as the starting point for discussions about probability and chance.
- Generate a set of numbers and use the 'History' tool to view them all. Use these numbers for your statistics work. Can you find the mean, median, mode and range of your set?
- Some options are impossible to set using the generator (e.g. Even and Tenths OR Less than 20 and More than 30). Discuss why this is. Can your children think of other 'impossible' combinations of options?

Members of **Teaching Packs** can access the Number Generator tool at:
www.teachingpacks.co.uk/number-generator