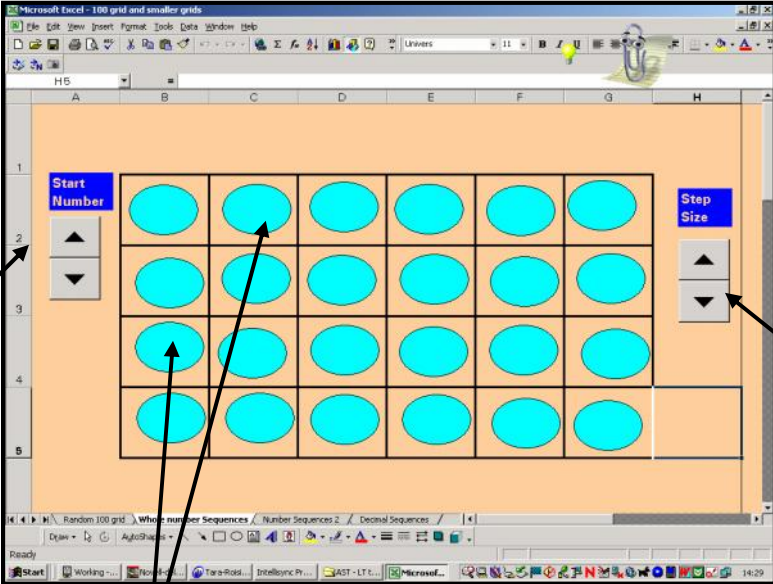


Sequences spreadsheet

Sequences spreadsheet - Overview

This flexible resource provides opportunity to explore sequences with different start numbers and step sizes. Presenting them on different grids can extend the level of challenge. The resource can be used to support questioning to extend strategies for finding missing numbers in sequences, and actively by children to generate and test their own number sequences.

Sequences spreadsheet – How to use



These spinner controls the start number of the grid. They can be changed from -100 up to 29900

These spinner controls the step size between the numbers on the grid. On this grid, the step size is added to the previous number.

The counters can be moved to reveal the number. This supports children to test and confirm their ideas

Variations on the grid:

Random 100 grid – The arrows in cells L2 and L3 control whether the grid is 1 – 100 or random. If the number 1 appears in cell L1, the grid will be a 1-100 grid. If 0 appears in cell L1, the grid will have a random start number followed by numbers counting up in 1s. This grid can be refreshed by pressing the arrow in cell A2.

Number Sequences 2 – This works as the grid pictured above except the step size will be subtracted from each number. Make sure your start number is large enough to create the sequences you want.

Decimal Sequences – This works like the random grid except the change between each decimal is 0.01.

Key Questions:

- Remove the counters for the 1st and 3rd numbers. What are the first five numbers? How do you know?
- Remove the counters for the 1st and 4th numbers. What are the first five numbers? How do you know?
- Remove the counters for the 1st and 5th numbers. What are the first five numbers? How do you know?
What strategies did you employ to work it out?