

The image displays a 100x100 grid of dots, where each dot represents a non-zero element in a matrix. The pattern of dots is highly structured, showing a clear banded nature. The main diagonal is fully populated with dots. There are also significant blocks of dots along the upper and lower diagonals, suggesting a banded matrix structure. The distribution of dots is not uniform across the grid, with some rows and columns having more dots than others, indicating a sparse matrix with specific non-zero patterns.

The figure consists of 12 small diagrams arranged in a single row, each showing a pattern of black dots on a white background. The patterns are as follows:

- Diagram 1: A single dot at the top left.
- Diagram 2: Two dots, one at the top left and one at the top right.
- Diagram 3: A cluster of four dots in a 2x2 square.
- Diagram 4: A cluster of five dots, with one dot at the top left and four dots below it.
- Diagram 5: A cluster of six dots, with one dot at the top left and five dots below it.
- Diagram 6: A cluster of seven dots, with one dot at the top left and six dots below it.
- Diagram 7: A cluster of eight dots, with one dot at the top left and seven dots below it.
- Diagram 8: A cluster of nine dots, with one dot at the top left and eight dots below it.
- Diagram 9: A cluster of ten dots, with one dot at the top left and nine dots below it.
- Diagram 10: A cluster of eleven dots, with one dot at the top left and ten dots below it.
- Diagram 11: A cluster of twelve dots, with one dot at the top left and eleven dots below it.
- Diagram 12: A cluster of thirteen dots, with one dot at the top left and twelve dots below it.

The figure consists of 10 sub-diagrams arranged horizontally, each showing a pattern of black dots on a grid. The patterns evolve from left to right. The first diagram has 3 dots. The second has 5 dots. The third has 7 dots. The fourth has 9 dots. The fifth has 11 dots. The sixth has 13 dots. The seventh has 15 dots. The eighth has 17 dots. The ninth has 19 dots. The tenth has 21 dots. The patterns are symmetric about a vertical axis.

The diagrams illustrate the construction of the word 'MATHS' using dot markers. The sequence is as follows:

- Diagram 1: A single dot at the top left.
- Diagram 2: Two dots, one at the top left and one at the top right.
- Diagram 3: Three dots, with a third dot added below the top left dot.
- Diagram 4: Four dots, with a fourth dot added below the top right dot.
- Diagram 5: Five dots, with a fifth dot added below the top left dot.
- Diagram 6: Six dots, with a sixth dot added below the top right dot.
- Diagram 7: Seven dots, with a seventh dot added below the top left dot.
- Diagram 8: Eight dots, with an eighth dot added below the top right dot.
- Diagram 9: Nine dots, with a ninth dot added below the top left dot.
- Diagram 10: Ten dots, with a tenth dot added below the top right dot.
- Diagram 11: Eleven dots, with an eleventh dot added below the top left dot.
- Diagram 12: Twelve dots, with a twelfth dot added below the top right dot.

The figure consists of 10 sub-diagrams arranged in a single row, each showing a pattern of black dots on a grid. The patterns evolve from left to right, starting with a small cluster of dots and growing into a more complex, branching structure.

The figure consists of 12 diagrams arranged in two rows of six. Each diagram shows a set of points (dots) in a 2D space. The points are colored: red, green, blue, and black. The sequence shows the points moving and changing color over time, with some points appearing to be 'born' or 'die'.

[illegible]

The figure consists of 10 sub-diagrams arranged horizontally, each showing a pattern of black dots on a grid. The patterns evolve from left to right:

- Diagram 1: A small cluster of 5 dots.
- Diagram 2: A cluster of 7 dots.
- Diagram 3: A cluster of 9 dots.
- Diagram 4: A cluster of 11 dots.
- Diagram 5: A cluster of 13 dots.
- Diagram 6: A cluster of 15 dots.
- Diagram 7: A cluster of 17 dots.
- Diagram 8: A cluster of 19 dots.
- Diagram 9: A cluster of 21 dots.
- Diagram 10: A large, interconnected cluster of 23 dots.

A 3x3 grid of dots. The top row has 2 dots in the middle and right positions. The middle row has 1 dot in the middle position. The bottom row has 1 dot in the left position and 1 dot in the middle position.

A 4x15 grid of black dots on a white background, representing a sparse matrix. The dots are arranged in four rows and fifteen columns, with varying densities of dots in each cell.

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