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Magic Cubes

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Objective: Form 4x4x4 cubes with magic squares on all sides.

The eight cubes have 2x2 arrangements of domino dots on each face, representing the numbers 0 to 6 (and a total of 12 dots on each face).

Arrange the eight cubes into a large 2x2x2 cube so that four numbers in every row, column, and long diagonal—on all 6 faces—show a sum of 12.

On the left is an unfolded diagram of one solution, where each face is also a most-perfect magic square, as defined by Dame Kathleen Ollerenshaw.

On the right is an exploded diagram of the same cube turned "inside out" (swapping layers in all three directions), which also happens to be a solution!