



## CuNitrogen™ Solo Rules For Culica®

Variation - Classic

Mode: 1 Player (Puzzle)

Difficulty: Easy to learn, hard to solve!

### Rules

Put pegs onto the Culica such that every peg has exactly three neighbours. (including over the face edges).

- ✓ Neighbours are *side-by-side*. (Peg colour doesn't matter).
- ✓ Pegs that touch diagonally (*not side-by-side*) are allowed and are *not* counted as “neighbours”

*Examples: in the top right picture, the green peg has three neighbours and the yellow pegs each have one.*

*In the bottom right picture the green and red pegs have three neighbours each. Two of the yellow pegs have two neighbours each and the other two yellow pegs have one neighbour each.*

*The examples show pegs on one face, but pegs can be all over the cube.*

There are two exact solutions, each with a different number of pegs.

### To win:

Find both ways of putting pegs onto the Culica so *every* peg has *exactly* three *side-by-side* neighbours.

### Bits and Bobs

CuNitrogen (also known as the Nitrogen Game) is named after the Nitrogen atom, which likes to make three chemical bonds (analogous to the three-neighbour rule).

CuNitrogen is a game that is a spin-off from the CuMolecula game for the Culica, which features “nitrogen” with three bonds, and also “hydrogen” with one bond, “oxygen” with two bonds and “carbon” with four bonds. The solutions to this puzzle are the only two Nitrogen “CuMolecula”s.

If you like CuNitrogen, then you will also like CuOxygen!

