

## Creative 3-D Puzzle Ball Solution

This page offers seven useful manoeuvres to achieve small distinct changes of the puzzle ball. According to the rule "Green=Go, Red=Stop", always turn the half of ball depicted in green by $120^{\circ}$ (one third of a complete revolution) in the indicated direction and leave the half-ball depicted in red unmoved. The result is given by the big yellow diagram above the manoeuvre using the following symbols:
$+: 120^{\circ}$ clockwise rotation of a triangle, - : $12 \mathbf{0}^{\circ}$ counterclockwise rotation of a triangle, $\mathrm{x}: 180^{\circ}$ rotation of a square.

Be careful to always hold the Puzzle Ball the same way while executing a manoeuvre! Notice that it is impossible to rotate squares by $90^{\circ}$ or rotate just one square by $180^{\circ}$ or to exchange just two squares or two triangles. It is possible, however to rotate two squares by $180^{\circ}$, and three squares or three triangles can change places cyclically.

Enjoy great fun and every success!










