A 3D rotational and sequential spheric puzzle, Designed, Engineered and Manufactured with $100 \%$ European Quality. During the assembling process, no glue nor any metallic element such as springs, screws or washers are used. Actually, all of its 54 pieces are built with high quality and $100 \%$ recyclable plastic. New, original, quiet and well defined movements, with the guarantee of a longwearing product. Surface of the Marusenko sphere has 24 triangles (arranged in 6 poles) and 8 stars (leaving a total of 32 moving pieces). Its $2,279,626,699,712,199,018,518,937,600,000$ positions (around $2.3 \times 10^{30}$ ) and all of its potencial color configuration led us to present the sphere in 5 different designs, offering different levels of creativity and complexity. We hope that this challenge will be to your liking and we sincerely appreciate your purchase.


The flag sphere represents level 3 among the 5 levels that Marusenko offers. This method is not unique nor the fastest but it is an step-by-step approach in order to solve the sphere from any of its $1.932 .542 .454 .240\left(7,9 \times 10^{7}\right)$ possible positions; without shortcuts nor triks that could lead us to a quicker resolution method. In this example we will solve the Northern Hemisphere in blue-stars colour and the Southern Hemisphere in orange-stars. Then the North Pole in white-triangles and the Side Poles in blue and orange triangles. The South Pole will have been automatically solved in yellow. After this first contact with this standard method, you will soon come up with your own trick and shortcuts, which leads to your own fast and smart solution.

Standard Method Summary:
We solve the sphere from north to south through the following steps:
1.-Orient the Sphere: North Pole (as the active pole) and Front Pole (as the auxiliar pole).
2.-Solve the stars: 4 blue-stars at Northern Hemisphere \& 4 orange-stars at the South one.
3.-Learn to bring a desired triangle to the Front Pole (auxiliary step useful during next steps.
4.-Solve the North Pole: Join 4 White-triangles in the North Pole.
5.-Solve the Front Pole: 2 blue-triangles on the upper half and 2 orange on the bottom half.
6.-Solve Side Poles (Right, Back anf Left): repeat step \#5 to solve them.
7.-South Pole will have been automatically resolved in yellow colour.

STEP \#1: Orient the Sphere: choose and view the North Pole, South Pole and $1^{\text {st }}$ Reference Star
We choose any "blue star" as the "front-upper-
left star", and orienting and holding the sphere in
hands leave the selected blue-star in such a
position. In this way we have decided which one
will be our "North Pole" and which one our
"Front Pole" Reference

STEP \#2: Solving the 8 Stars:


STEP \#3: Learning to bring a triangle to the Front Pole. (AUXILIARY STEP: useful when we are executing 3rd and subsequent steps).


STEP \#4: Solving the North Pole:

Join 4 "white-triangles" in our choosen "North Pole". Bring one-by-one the 4 white triangles from the Front Pole to the North Pole. Follow the next 4 sub-steps.

Not all the intermediate steps are always necessary



STEP \#5: Solving the $1^{\text {st }}$ Side Pole


STEP \#6: Solving the rest of the Side Poles:

Solve the 3 remaining "Side Poles" (Rigth, Back and Left) with their upper half in blue and their bottom half in orange. Repeat for each one of them the Step \#5. "South Pole" will have been automatically resolved in yellow.


## OTHER SOLUTIONS

Try to obtain the other possible color sequence, as the right picture, by yourself. Develope your own trick and shortcuts, they will come soon practicing.


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