**Notation**

R - clockwise right face turn

R2 - two right turns

R’ - counterclockwise right face turn

f - two front layers together clockwise

L - Left, B - Back, U - Top,

D - Bottom

There are more notations but these are all you need for the beginner method!

**Cross**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

-make sure you not only have the cross, but the edges are in their correct respective places(the sides should match)

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

-all sides should look like this

**Corners**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

-place the correct corners to complete the white side and make each side have this shape

**Edges**

-our first algorithms!

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **L** |  | **R** |
|  |  |  |

-when the edge needs to go to the left slot,

U’ L’ U L U F U’ F’

-when the edge needs to go to the right slot,

U R U’ R’ U’ F’ U F

-do this for each edge in the first two layers

**Last Layer**

**Orientation of the Last Layer (OLL)**

**Complete the Yellow Cross**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

F R U R’ U’ F’ F R U R’ U’ F’ f R U R’ U’ f’

**Complete the Yellow Layer**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  | R U R’ U R U2 R’ U |
|  |  |  |  |  |
|  |  |  |  |  |

-do this algorithm (a lot) until you see this shape, then you’ll need to do it one or two more times and you’ll have all yellow on top

-yellow to the lower left

**Headlights**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  | R’ F R’ B2 R F’ R’ B2 R2 U’ |
|  |  |  |  |  |
|  |  |  |  |  |

-once the yellow layer is complete, you might have this side view with “headlights”(two of the same color on the outside)

-put the headlights in the back and do this algorithm, if there are no headlights, do the algorithm and there will be

**Edges**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  | R U’ R U R U R U’ R’ U’ R2 |
|  |  |  |  |  |
|  |  |  |  |  |

-you should now have three sides of headlights and one of a single color like above

-put the single color side in the back and do this algorithm

-if you end up with the same thing, do it one more time and you’re done!