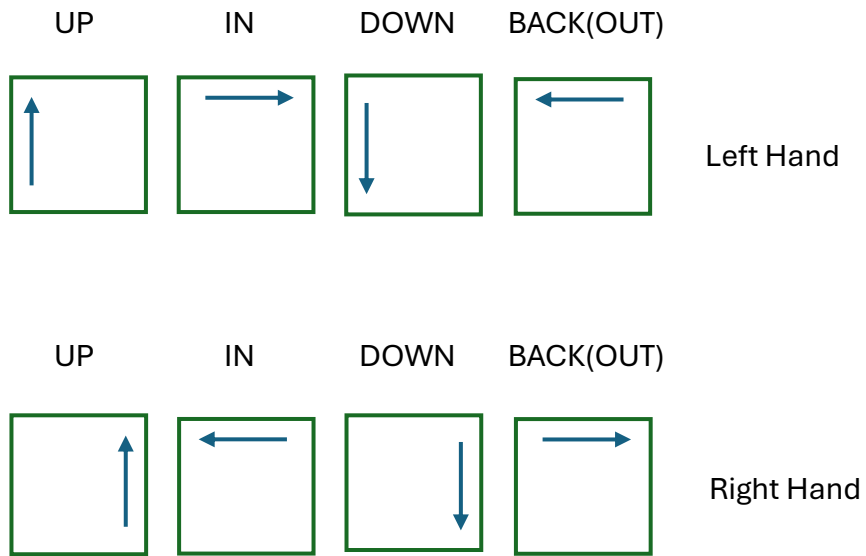


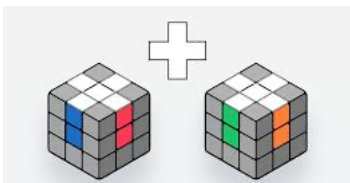
## Rubic cube Cheat sheet

### The Special move



### Step one: complete the white cross

Remember to make sure that each of the white cross pieces is lined up in the correct way like so:



This part is a little complicated at first but just requires some practice to build up your intuition.

## Step 2: The first layer!

The first layer is already halfway solved already since we have the white cross completed. The **only** thing to complete the first layer is to make sure all of the **4 corners** are in.

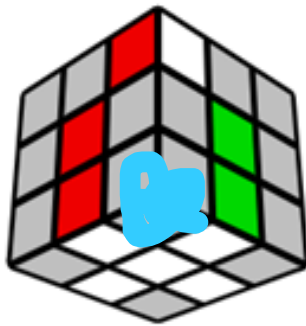
Just remember the secret move: I always like to say “up, in , down, back”.

\*Remember that you are do this “special move” with both hands. The directions are determined by which hand you are using.

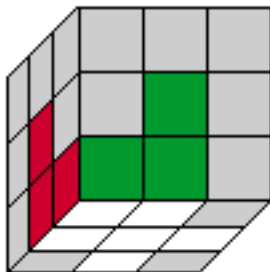
Steps to solve the first layer:

1. Turn cube upside down so that the white cross is on the bottom
2. Find any corner piece that has white on it
3. Move it to be placed over where it should be:

Ex. We have this corner piece placed over the “correct position”(which is marked in blue). The corner has red and green(green is on top) so we know that this corner piece will go between the red and green.



4. The only thing you do now is **do the special move** until that corner piece is in the right position. It will end up looking like this:



**Repeat and do with all other corner**

### **Step 3: the second layers:**

**\*Remember the special move: UP IN DOWN BACK**

#### **Key points to remember**

- find an edge piece that doesn't have yellow on it
- match it up with the right colors
- push AWAY from the colors (The direction could be different for every piece. If the colors are green and red, we always want to PUSH the color away in one move so that it is not touching the green or red.
- Start with whatever hand is on the corner (where you want the piece) and perform the special move. Now do that same special move, on the same corner, but with the other hand.
- remember if there happens to be an edge piece that is not already on the top, you can find another piece to put in place of the piece you want.

Repeat this until the second layer is all done.

### **Step 4: the yellow cross**

Remember we are looking for the yellow on top to be displayed in one of the following:

- Little L shape: if you find this, then put it in the top left corner and perform the special move: BUT we don't want to mess it up so we have to turn the face once to the right. Once we complete the special move, we can turn the face back to where it was.
- line: turn line to be horizontal and do the same special move and prep as before.
- nothing: do special move anywhere and check for one of the previous signs
- cross: if the cross is already solved then, nice, we skip this step.

### **Step 5: Line up the yellow cross**

The yellow cross is now complete but it may not be lined up in the correct way.

Look for:

1. 2 colors right next to each other that are lined up. (remember that you are able to move the very top piece to see if there are any matches)

- Once you have two colors, put the pair so that they are facing the back and the right. If there are no colors that are lined up and right next each, then do the following move from anywhere and then **check** to see if two pieces are matched up.

This is the move you are to perform when 2 are matched up, or none. If 2 are matched up, put in the back and to the right.

**Special move: UP In down (not back this time, but push one more),** then you can lift up again and turn the top until it is in the right place then put back down. **check by turning the very top to see if they line up correctly.** I can show you this move in person. Repeat if needed, by placing two that are lined up to the back and right.

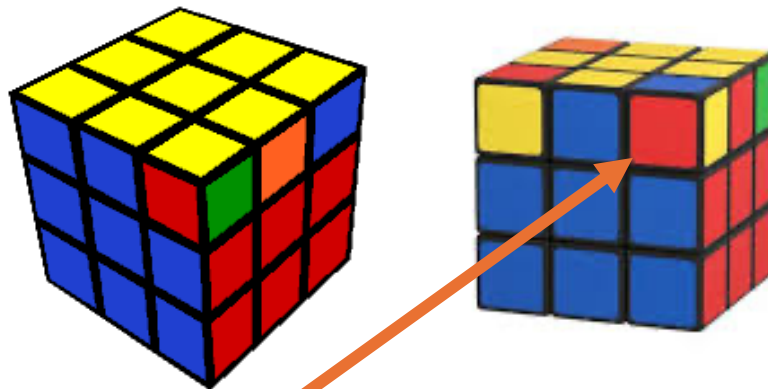
### Step 5: Line up the Yellow Corners

Remember the algorithm: In UP (repeat with left hand), In DOWN (repeat with left hand)

Check the corners to see if they are lined up properly.

This corner is not in the right spot

This corner is in the right spot



Find one corner that is in the right spot the bring it to the front right of the cube like shown.

Now do the move as shown above, In UP (repeat with left hand), In DOWN (repeat with left hand). After completing, check to see if they are all lined up, if not, repeat until they are.

### Final Step:

This step is very easy but also needs to be done 100% right or it will mess up the cube and you'll have to restart.

We will be using the special move to complete the final steps, it's that easy.

1. Turn the cube upside down so that the yellow is on the bottom and the white is now back on top.
2. Just like we were doing with the white corners, we are going to perform **the move** until the yellow piece is oriented in the correct way. Make sure to check each time you complete **the move**.
3. **Remember** that for whatever side you start with, **you can't move the cube anymore**. Let's say you start doing this move with the red side facing towards you. Never turn the whole cube or it will mess up.
4. **You can't turn the whole cube but you can turn the very top**. Once you complete the first corner, only move the very bottom of the cube. Turn to right so that the next yellow corner is ready to be solved. Repeat until the cube is completely finished.