

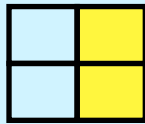
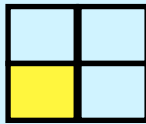


2x2:

Get white side. To get 2nd layer, put matching to back:

$R' D R L' D' L R' D R$

top



$R U R' U R U_2 R'$

When yellow full, lineup matches, then place at back.

$R' F R' B_2 R F' R B_2 R_2 B_2$

3x3 Get white side:

2nd Layer



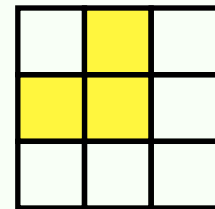
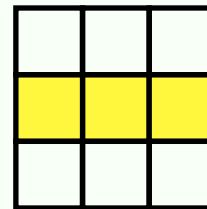
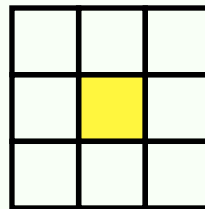
$U R U' R' U' F' U F$



$U' L' U L U F U' F'$

To get yellow cross, hold like this:

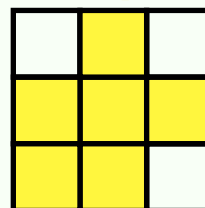
top



$F U R U' R' F'$

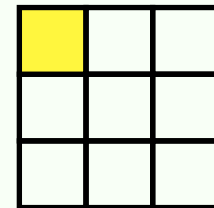
Once yellow cross, to get all yellow up, hold like this:

top



If different, hold so top left is yellow on the front face:

front



$R U R' U R U_2 R'$

To get corners, put any good ones at back:

$R' F R' B_2 R F' R' B_2 R_2$

To move top edge pieces:

$F_2 U R' L F_2 R L' U F_2$

4x4

Get all centers. Pair edges. On last 2 edges, If:

DIAGONAL:

$R U R' U' F' U F$

SAME LAYER:

$D d R F' U R' F D d'$

EDGE PARITY (TOWARD US):

$r' U_2 l F_2 l' F_2 r_2 U_2$

$r U_2 r' U_2 F_2 r_2 F_2$

5x5

Midge swap:

$R r' F' L l' R r U R r U' L l R r'$

Edge corner swap:

$R r U R r' U R r U_2 R r'$

Last edges:

$U u_2 R r_2 U_2 r_2 U_2 R r_2 U u_2$

or Full side to back:

Counter:  $R U' R U R U R U' R' U' R_2$

Clock:  $R_2 U R U R' U' R' U' R' U R'$

Hold the cube so that the two edges to solve are at Front and Back of the **Up** layer.

**x** = rotate cube like R  
**y** = rotate cube like U  
**z** = rotate cube like F  
**m** = layer between L & R  
**e** = layer between U & D  
**s** = layer between F & B



Lw U' R' U R' F R F' Lw'



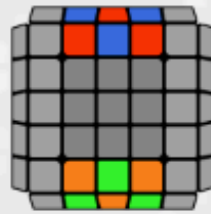
Rw U2 Rw U2 Rw' U2 Rw U2  
 Lw' U2 Lw F2 Rw' F2 Rw' U2  
 Rw'



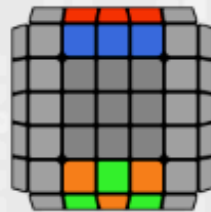
Lw2 F2 U2 Lw' U2 Lw2 F2 Lw'  
 U2 Lw2 U2 F2 Lw'



Rw U2 Rw2 U2 Rw' U2 Rw U2  
 Rw' U2 Rw2 U2 Rw



x' M' U' R' U R' F R F' M



Rw U2 Rw U2 Rw' U2 Rw U2  
 Lw' U2 Rw U2 Rw' U2 x' Rw' U2  
 Rw' U2 M'



Rw2 F2 U2 Lw' U2 Lw2 F2 Lw'  
 U2 Rw2 U2 F2 Rw



Rw' U2 Rw' U2 B2 Rw' B2 Rw'  
 F2 Lw2 F2 Rw U2 Rw2



Rw' U' R' U R' F R F' Rw



Rw U2 Rw U2 Rw' U2 Rw U2  
 Lw' U2 Lw F2 Rw' F2 Rw' U2  
 Rw'



Lw' U2 Lw' U2 F2 Lw' F2 Rw U2  
 Rw' U2 Lw2



Rw' U2 Rw2 U2 Rw U2 Rw' U2  
 Rw U2 Rw2 U2 Rw'