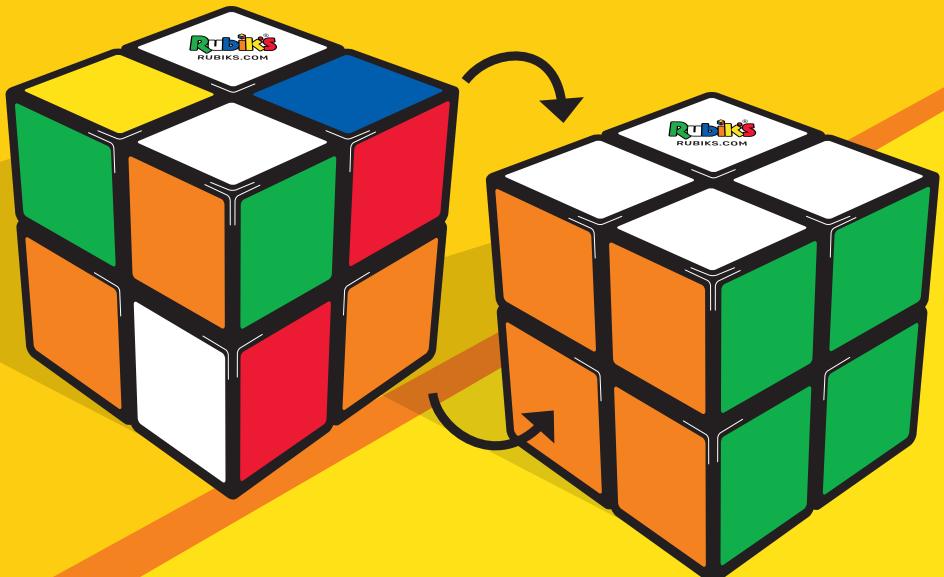




# YOU CAN DO THE RUBIK'S MINI

## Solution Guide



**Rubik's®**



## HOW TO USE THIS GUIDE

- You will be learning the layered method to solve the Rubik's® Mini. This layered method is also used to solve the Rubik's Cube (original 3x3) and the Rubik's Master (4x4).
- Throughout the guide you will see this symbol to indicate helpful tips. Take the time to read the tips closely.
- The gray areas on the Rubik's Mini mean that at the stage you are working on, the color of the gray pieces doesn't matter.



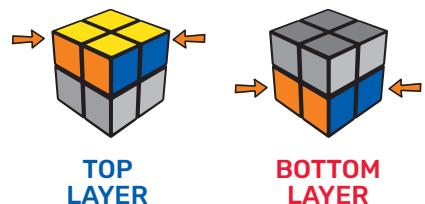
## TIPS FOR SUCCESS

- Learning to solve the Rubik's Mini is easier than solving the Rubik's Cube (original 3x3), but still a challenge.
- The Rubik's Mini is solved using sequences of moves known as algorithms.
- Your Rubik's Mini will be solved using a layered method, so you may want to try re-scrambling your Rubik's Mini and practicing multiple times before moving on to the next layer. Soon these steps will become muscle memory.
- Keep the Rubik's Mini on a table or use a mat like the one on [www.YouCanDoTheCube.com](http://www.YouCanDoTheCube.com) to maintain the same front face for an entire algorithm.
- Learn songs and chants to help you memorize the algorithms.
- Place a small sticky note on the piece of the Rubik's Mini you are moving so you can follow its path. Consider taking a video while you do this and then watch the video.
- Use this guide along with **You CAN Do the Rubik's Cube's** corresponding resources such as videos, solving checklist, and teacher guides.
- Mindset is critical. If you persevere, you CAN solve the Rubik's Mini.

# GET TO KNOW YOUR RUBIK'S MINI

## LAYERS

There are two horizontal LAYERS in a Rubik's Mini.



## FACES

Each flat surface is a face.

There are 6 faces on a Rubik's Mini.

The UP face is on the Top Layer.

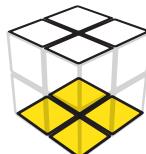
The DOWN face is on the Bottom Layer.

When correctly solved:

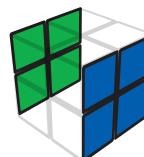


You can place your palm flat on a FACE.

WHITE  
is opposite  
YELLOW



BLUE  
is opposite  
GREEN



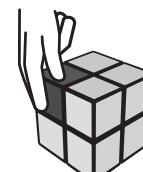
ORANGE  
is opposite  
RED



## CORNERS

The Rubik's Mini is made up of 8 corner pieces.

Corner pieces have three colored tiles.



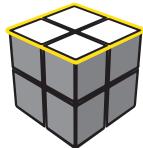
You use three fingers to touch all sides of a CORNER piece.

# GET TO KNOW YOUR RUBIK'S MINI

## FACE KEY

Each face is represented by a letter.

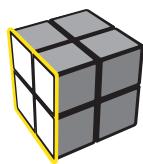
**U = UP FACE**



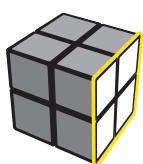
**D = DOWN FACE**



**L = LEFT FACE**



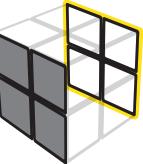
**R = RIGHT FACE**



**F = FRONT FACE**



**B = BACK FACE**



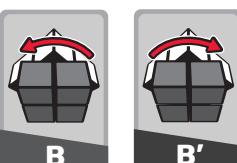
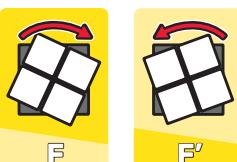
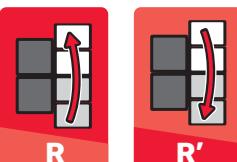
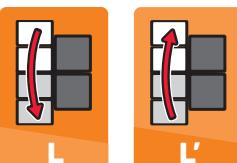
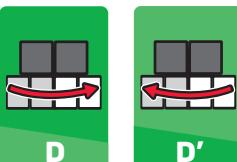
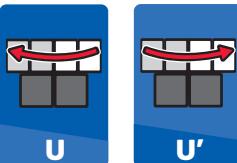
## MOTIONS

Think of the movements of these objects when you turn the faces.



## ALGORITHM KEY

Moves used in this guide.



- Each move is a  $\frac{1}{4}$  TURN.



- An ALGORITHM is a sequence of moves that you need to do in a specific order.
- Think of the algorithms as moving a piece out of the way, setting up its correct position, and then moving the piece into that place.
- When following the algorithms in this guide, it is important to maintain the FRONT face of your Rubik's Mini so it stays the FRONT through all of the turns.
- If there is a 2 next to the algorithm letter, turn the face twice.



- A turn is clockwise when looking at that face directly. A letter with an apostrophe (') after it means to make an inverse or counterclockwise turn of the face.



## RUBIK'S MINI SOLUTION GUIDE

This solution guide is divided into two stages as seen below.

### SOLVE THE TOP LAYER

### SOLVE THE SECOND LAYER

Now... let's get solving!

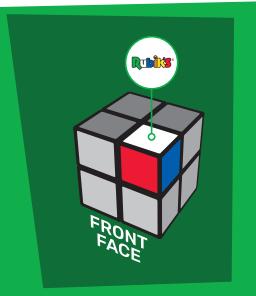
## SOLVE THE TOP LAYER

### 1ST AND 2ND CORNERS

#### HOLDING YOUR RUBIK'S MINI

Begin by holding your Rubik's Mini so the WHITE tile with the Rubik's logo is facing the ceiling. This is the **top** layer.

- The WHITE tile will be on the UP face.
- The RED tile will be on the FRONT face.
- The BLUE tile will be on the RIGHT face.



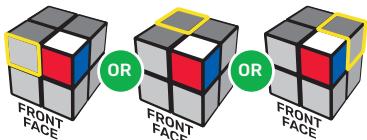
#### Action 1

Find the corner piece that has a WHITE tile, a BLUE tile and an ORANGE tile.

- If your Rubik's Mini looks like this, then the 2nd corner is placed. Go to [page 6](#).



- If it is in the **top** layer, it will be in one of the locations here. You will be moving this corner to the **bottom** layer so that you can then place it correctly in the top. Go to [Action 2](#).

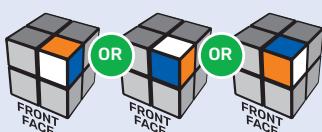


- If the corner piece with WHITE-BLUE-ORANGE corner is in the **bottom** layer, go to [Action 3](#).



#### Action 2

Hold your Rubik's Mini to match one of the pictures below (with the WHITE-BLUE-ORANGE corner on the right).



Follow this algorithm to move the WHITE-BLUE-ORANGE corner from the **top** layer to the **bottom** layer. Then move to [Action 3](#).



#### HOLDING YOUR RUBIK'S MINI

Now hold your Rubik's Mini so the white tile with the Rubik's logo is facing the ceiling and the WHITE-BLUE-RED corner is on the LEFT.

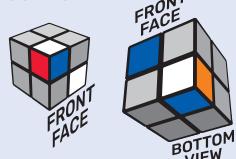


#### Action 3

Twist the DOWN face until your Rubik's Mini matches one of the pictures below.



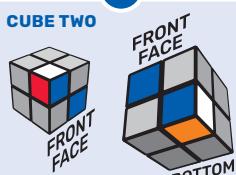
##### CUBE ONE



Holding the FRONT facing you, make this turn:



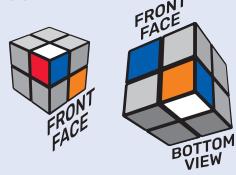
##### OR



Holding the FRONT facing you, follow this algorithm:



##### OR



Holding the FRONT facing you, follow this algorithm:



You've solved the second corner!

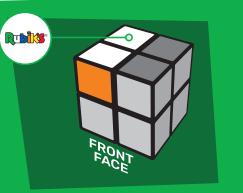


## SOLVE THE TOP LAYER

### 3RD CORNER

#### HOLDING YOUR RUBIK'S MINI

Begin by holding your Rubik's Mini so the WHITE-BLUE-ORANGE corner is on the LEFT. The logo is still facing the ceiling.



**Action 1** Find the corner piece that has a WHITE tile, a GREEN tile and an ORANGE tile.

- If your Rubik's Mini looks like this, then the 3rd corner is placed correctly. Go to [page 8](#).
- If it is in the top layer, go to [Action 2](#).
- If the WHITE-GREEN-ORANGE corner is in the bottom layer, go to [Action 3](#) on the next page.



**Action 2** Hold your Rubik's Mini to match one of the pictures below and follow the directions to move the WHITE-GREEN-ORANGE corner to the bottom layer.



Holding the FRONT facing you, make this turn:

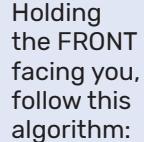


Now go to [page 8](#).

OR



**CUBE ONE**



Holding the FRONT facing you, make this turn:



Now go to [page 8](#).

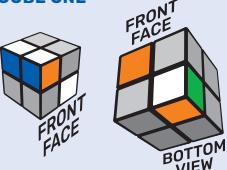
#### Action 3

Twist the DOWN face until your Rubik's Mini matches one of the pictures below.



D

##### CUBE ONE

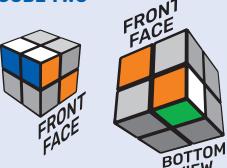


Holding the FRONT facing you, make this turn:



R

##### CUBE TWO



Holding the FRONT facing you, follow this algorithm:



R'

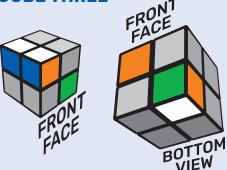


D'



R

##### CUBE THREE



Holding the FRONT facing you, follow this algorithm:



D



R2



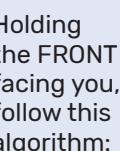
Now go to [Action 3](#).



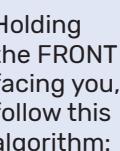
**CUBE FOUR**



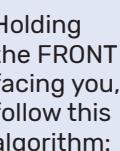
**CUBE FIVE**



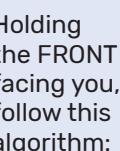
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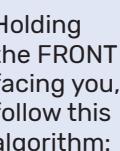
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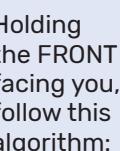
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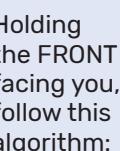
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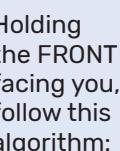
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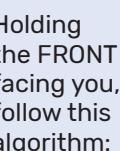
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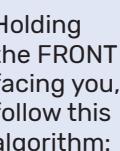
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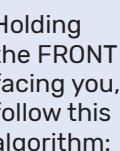
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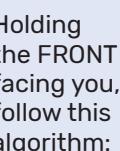
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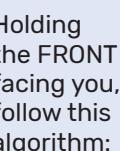
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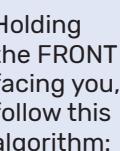
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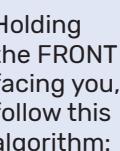
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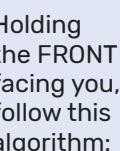
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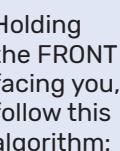
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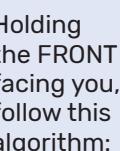
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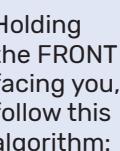
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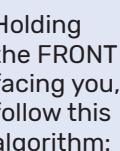
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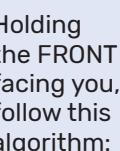
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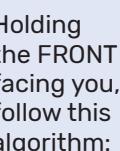
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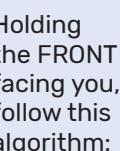
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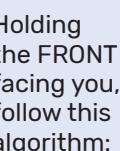
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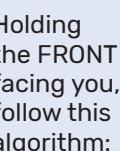
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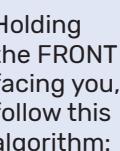
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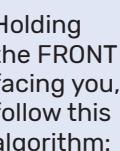
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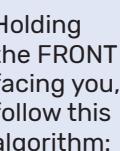
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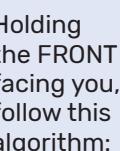
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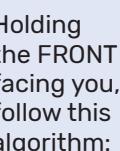
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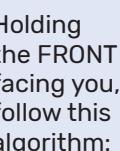
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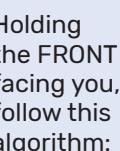
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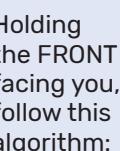
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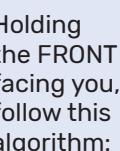
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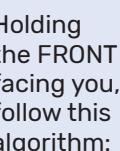
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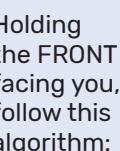
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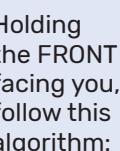
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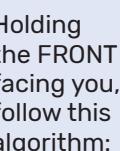
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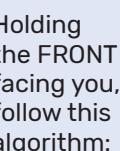
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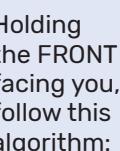
**CUBE FIVE**



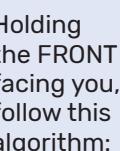
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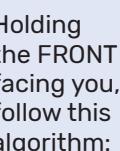
**CUBE FIVE**



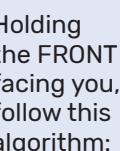
**CUBE FIVE**



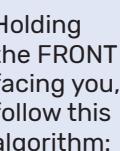
**CUBE FIVE**



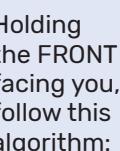
**CUBE FIVE**



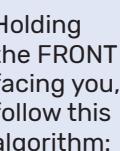
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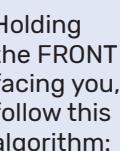
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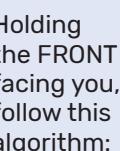
**CUBE FIVE**



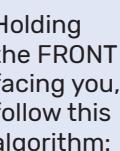
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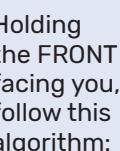
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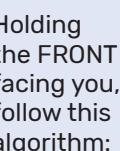
**CUBE FIVE**



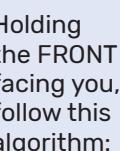
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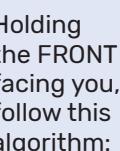
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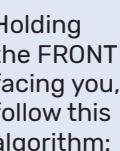
**CUBE FIVE**



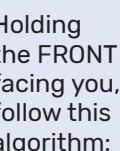
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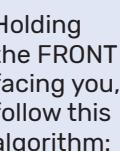
**CUBE FIVE**



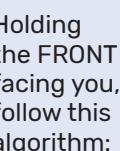
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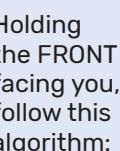
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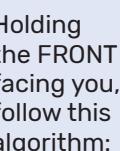
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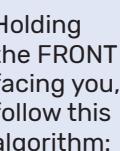
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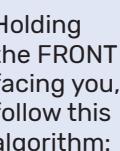
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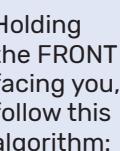
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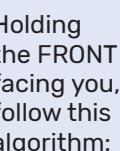
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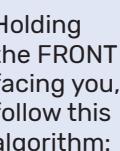
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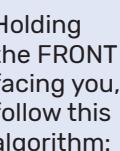
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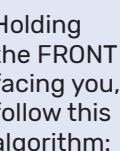
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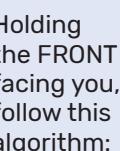
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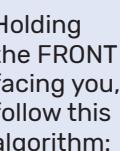
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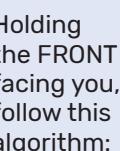
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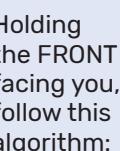
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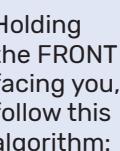
**CUBE FIVE**



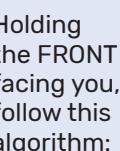
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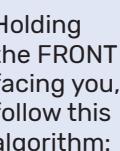
**CUBE FIVE**



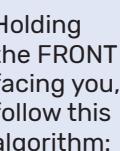
**CUBE FIVE**



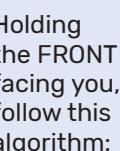
**CUBE FIVE**



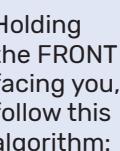
**CUBE FIVE**



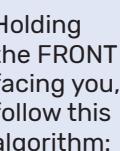
**CUBE FIVE**



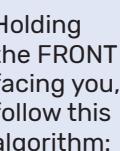
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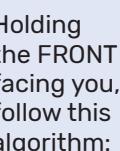
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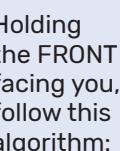
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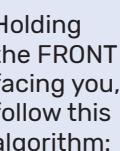
**CUBE FIVE**



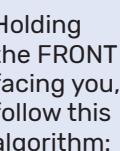
**CUBE FIVE**



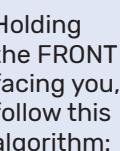
**CUBE FIVE**



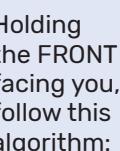
**CUBE FIVE**



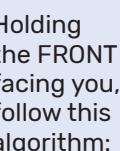
**CUBE FIVE**



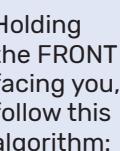
**CUBE FIVE**



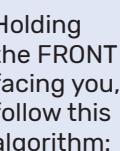
**CUBE FIVE**



**CUBE FIVE**



**CUBE FIVE**



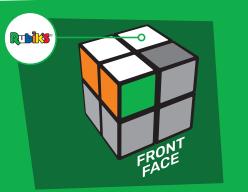
**CUBE FIVE**

## SOLVE THE TOP LAYER

### 4TH CORNER

#### HOLDING YOUR RUBIK'S MINI

Begin by holding your Rubik's Mini so the WHITE-GREEN-ORANGE corner is on the LEFT. The logo is still facing the ceiling.



#### Action 1

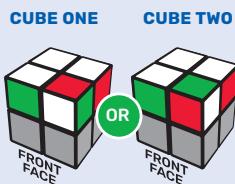
Find the corner piece that has a WHITE tile, a GREEN tile and a RED tile.

- If your Rubik's Mini looks like this then the 4th corner is placed correctly. Go to [page 10](#).
- If it is in the top layer, go to [Action 2](#).
- If the WHITE-GREEN-RED corner is in the bottom layer, go to [Action 3](#).

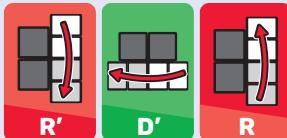


#### Action 2

Hold your Rubik's Mini to match one of the pictures below and follow the directions to move the WHITE-GREEN-RED corner to the bottom layer.



Holding the FRONT facing you, follow this algorithm:



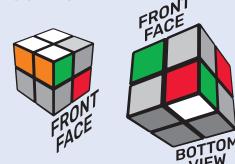
Now go to [Action 3](#).

#### Action 3

Twist the DOWN face until your Rubik's Mini matches one of the pictures below.



#### CUBE ONE



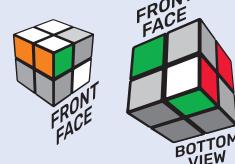
Holding the FRONT facing you, follow this algorithm:



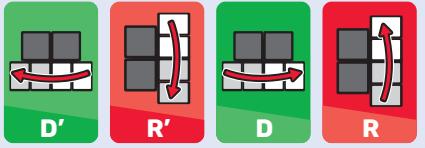
Now go to [CUBE TWO](#).

OR

#### CUBE TWO

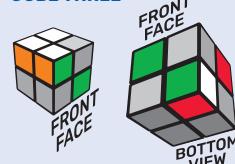


Holding the FRONT facing you, follow this algorithm:

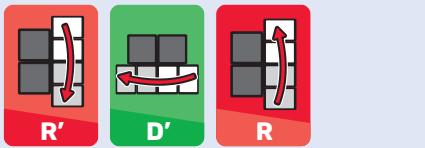


OR

#### CUBE THREE



Holding the FRONT facing you, follow this algorithm:



You've solved the top layer!

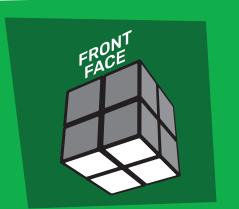


## SOLVE THE SECOND LAYER

### MAKE THE YELLOW FACE

#### HOLDING YOUR RUBIK'S MINI

Begin by holding your Rubik's Mini so the WHITE face is on the **bottom (DOWN face)**.



#### Action 1

Match the UP face to one of the pictures below:

If **1** Yellow tile is on the UP face



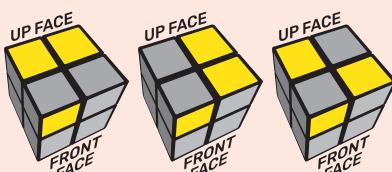
This saying may help:  
**'Top one'**

If **no** Yellow tiles are on the UP face



This saying may help:  
**'None left!'**  
None = no Yellow on top.  
Left = Yellow on LEFT face.

If **any 2** Yellow tiles are on the UP face



This saying may help:  
**'I see two, my left thumb is on you.'**  
You can put your left thumb on the Yellow tile on the FRONT face.

#### Action 2 Follow this algorithm:



Up      Over      Down



Over



Up      Over, over      Down



#### CHANT

The words underneath the turns are a chant to help you remember the algorithm.

Notice the RIGHT face turns in opposite directions every other time and the UP face always turns clockwise.

#### Action 3

If you do not have all YELLOW tiles on the UP face, rematch your Rubik's Mini to one of the pictures in **Action 1** on page 10 and repeat the algorithm in **Action 2**. You may need to do this 2 or 3 times.

If you have all Yellow on the UP face,  
go to the next page.



## SOLVE THE SECOND LAYER

### PLACE THE YELLOW CORNERS CORRECTLY

#### HOLDING YOUR RUBIK'S MINI

Begin by holding your Rubik's Mini with **YELLOW** on the **UP face**.



#### Action 1

Twist the top layer until the colored tiles of two corners match the **bottom** layer.



Look at the faces of your Rubik's Mini. Are all the colors like this?



Yeah! You've solved the Rubik's Mini!

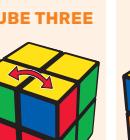
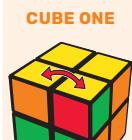
If your Rubik's Mini is not solved then go to **Action 2**.

#### Action 2

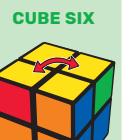
Hold your Rubik's Mini so it matches one of the pictures.

*Red arrows show the corners that need to swap.*

##### Adjacent Corners (next to each other)



##### Diagonal Corners (not touching each other)



#### Action 3

Follow this algorithm.



R'  
Run to me

F  
Fast

R'  
Run to me

B2  
Back Back

After you make these turns the top (U) of your Rubik's Mini will look like this;



R  
Run away

F'  
Fast

R'  
Run to me

B2  
Back Back

After you make these turns, the top (U) of your Rubik's Mini will look like this;



R2  
Run Run away

U'  
U'p



#### CHANT

The words underneath the turns are a chant to help you remember the algorithm.

#### Action 4

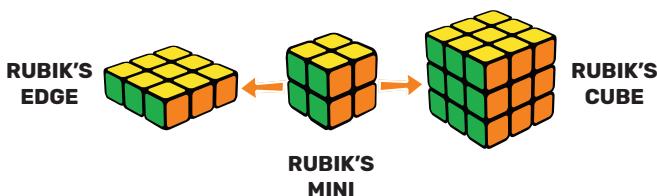
If your Rubik's Mini is not solved, you need to repeat **Actions 1-3**.



# CONGRATULATIONS!

You have solved the Rubik's Mini!

# TRY A DIFFERENT CHALLENGE



Available at: **RUBIKS.COM**



More resources available on **YouCanDoTheCube.com**

Videos for each stage / solution checklist / songs and chants / teacher guides

[www.youcandothecube.com/educators/teach-to-solve/](http://www.youcandothecube.com/educators/teach-to-solve/)



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