

## Solving the Last Layer- Position Yellow Corners Correctly Songs & Chants for Learning

Elementary



**Purpose:** The goal of this lesson is to make the algorithms necessary to solve yellow corners of the Rubik's Cube accessible to all elementary students through a song.

**Background:** Before students are ready to solve this layer of the cube, they should be able to solve the the white cross & corners, the middle layer, the yellow cross, and the yellow top of the cube. Do not attempt to teach this lesson before students have mastered the prior layers and sequences.

**Procedure:** Have students prepare cubes by solving through the yellow top layer of the cube. Show students the steps of the stage 6 sequence. Have them find meaningful patterns. Notable patterns: right, front, right, back, back // right, front, right, back, back; the left face of the cube is never moved during this sequence; and the top face of the cube is never moved until the very last move of this sequence.

### *The Persevere Song (You're Almost There!)*

*Right Down  
Front Right  
Right Down  
Back, Back  
Right Up  
Front Left  
Right Down  
Back, Back  
Right Up, Right Up  
Top Right*

See [video](#) for the tune of the song.

[www.YouCanDoTheCube.com](http://www.YouCanDoTheCube.com)

Practice the song a few times before showing the students how to position the yellow corners correctly (place the two correct corners in the back A, B or diagonally A, D or B, C across from each other (see below or Solution Guide for image).



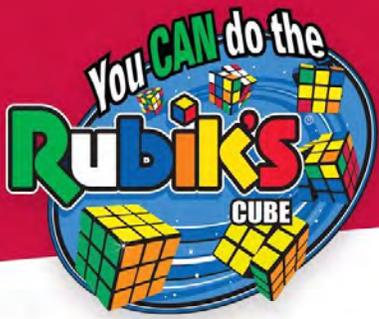
**Practice:** Have students position cubes correctly and practice the sequence. Assign practice goal of 5x daily until students are able to complete the steps to this point in three minutes or less.

**YouTube links:**

Entire playlist: <http://tinyurl.com/ElemVideos>

Video for this lesson:

<https://youtu.be/tMB9THEzCog>



## Solving the Final Edges Songs & Chants for Learning

Elementary



**Purpose:** The goal of this lesson is to make the algorithms necessary to solve the final edge pieces of the Rubik's Cube accessible to all elementary students through a chant.

**Background:** Before students are ready to solve this layer of the cube, they should be able to solve the the white cross & corners, the middle layer, the yellow cross, the yellow top and yellow corners of the cube. Do not attempt to teach this lesson before students have mastered the prior layers and sequences.

**Procedure:** Have students prepare cubes by solving through the yellow top and yellow corner layers of the cube. Show students the steps of the stage 6 sequence. Have them find meaningful patterns. Notable patterns: Front, front happens on the first, middle, and final lines of this 'poem'; top to the left is the 2nd and the 2nd from the bottom; left down, right down is toward the middle on either side of the middle stanza 'front, front'.

### ***The Final Moves Chant***

*(pat, clap, pat, clap)*

***Front, Front***

***Top to the Left (or right)***

***Left Down, Right Down***

***Front, Front***

***Left Up, Right Up***

***Top to the Left (or right)***

***Front, Front***

See [video](#) for the rhythm of the chant.

[www.YouCanDoTheCube.com](http://www.YouCanDoTheCube.com)

Note that students will do top to the left (or right) move based on the direction those final edge pieces are going. Also, if the edge pieces are not all moving in the same direction around the cube, they may have to complete the sequence more than one time.



**Practice:** Have students position cubes correctly and practice the sequence. Assign practice goal of 5x daily until students are able to complete the steps to this point in three minutes or less.

**YouTube links:**

Entire playlist: <http://tinyurl.com/ElemVideos>

Video for this lesson:

<https://youtu.be/QMJ16uGkSHI>