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Adventures in group theory : Rubik's Cube, Merlin's machine, and other mathematical toys. Publisher's description: Group theory deals with symmetry, in the most abstract form possible. It is a core part of the undergraduate math curriculum, and forms part of the training of theoretical physicists and chemical crystallographers. Group theory has tended to be very dry--until now.

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This project will follow the method of David Joyner's *Adventures in Group Theory: Rubik's Cube, Merlin's Machine and Other Mathematical Toys* to construct the Rubik's Cube Group. To begin, in Chapter 2, the preliminary properties of a group are reviewed. The different types of groups needed to construct the Rubik's Cube Group will be defined,

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## Group Theory and the Rubik's Cube

"Joyner has collated all the Rubik lore and integrated it with a self-contained introduction to group theory that equals or, more likely, exceeds what is available in typical dedicated elementary texts." (Choice) "Joyner does convey some of the excitement and adventure in picking up knowledge of group theory by trying to understand Rubik's Cube.

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Adventures in Group Theory: Rubik's Cube, Merlin's Machine, and Other Mathematical Toys - Kindle edition by Joyner, David.  
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The Rubik's Cube group is a group  $\{ \}$  that represents the structure of the Rubik's Cube mechanical puzzle. Each element of the set  $G$  corresponds to a cube move, which is the effect of any sequence of rotations of the cube's faces. With this representation, not only can any cube move be represented, but also any position of the cube as well, by detailing the cube moves required to rotate the solved cube into that position. Indeed with the solved position as a ...

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