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## ThinkFun 6830

# ThinkFun 36 Cube Instruction Manual

Model: 6830

Brand: ThinkFun

## INTRODUCTION

The ThinkFun 36 Cube is a challenging brain teaser puzzle designed to test your spatial reasoning and problem-solving skills. Your objective is to arrange 36 colored towers onto a puzzle base according to specific rules, ultimately forming a perfect cube.



Image: The ThinkFun 36 Cube puzzle, displayed in its retail packaging. The image shows the puzzle base filled with various colored towers, illustrating the product's components and overall appearance.

## SETUP

To begin, carefully remove all 36 colored towers and the puzzle base from the packaging. Place the puzzle base on a flat, stable surface. The towers are of varying heights and colors. Familiarize yourself with the different tower pieces before starting the puzzle.

## OPERATING (GAMEPLAY)

The objective of the ThinkFun 36 Cube is to place all 36 colored towers onto the 6x6 grid of the puzzle base. There are two primary rules that must be followed:

### 1. Rule 1: Unique Colors per Row and Column

In each horizontal row and each vertical column of the 6x6 grid, there must be one and only one of each colored tower. This means no two towers of the same color can be in the same row or column.

### 2. Rule 2: Form a Perfect Cube

When all 36 towers are placed on the base, they must collectively form a perfect cube shape. This implies that all towers, regardless of their individual height, must appear to be at the same height when viewed from above, creating a flat top surface across the entire 6x6 grid. This is achieved by the varying base heights of the towers.

Begin by selecting a tower and placing it into any slot on the base. Continue placing towers, ensuring that both rules are adhered to with each placement. If you find yourself unable to place a tower without violating a rule, you may need to re-evaluate previous placements.

The puzzle offers 6 levels of success, indicating increasing difficulty or different solution patterns. Achieving even a partial solution is considered a success.

## MAINTENANCE

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The ThinkFun 36 Cube requires minimal maintenance. To clean the puzzle pieces and base, gently wipe them with a soft, dry cloth. Avoid using abrasive cleaners or harsh chemicals, as these may damage the plastic. Store the puzzle in its original packaging or a suitable container to prevent loss of pieces and protect it from dust.

## TROUBLESHOOTING

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**Problem:** Unable to place all towers or complete the cube.

**Solution:** The ThinkFun 36 Cube is designed to be challenging. If you get stuck, it is part of the puzzle's experience. Consider the following:

- Review the two primary rules carefully to ensure no violations.
- Try starting over with a fresh arrangement.
- Focus on one row or column at a time to ensure color uniqueness.
- Experiment with different starting positions for the towers.

The puzzle is solvable, and persistence is key. Even solving a portion of the puzzle is a significant achievement.

## SPECIFICATIONS

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|                        |                         |
|------------------------|-------------------------|
| Model Number           | 6830                    |
| Number of Pieces       | 36 (towers)             |
| Number of Game Players | 1                       |
| Recommended Age        | 8 years and up          |
| Product Dimensions     | 16.97 x 12.4 x 16.97 cm |
| Item Weight            | 657.71 Grams            |
| Assembly Required      | No                      |
| Batteries Required     | No                      |

## WARRANTY AND SUPPORT

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For information regarding product warranty or technical support, please refer to the official ThinkFun website or contact their customer service department. Contact details are typically provided on the product packaging or on the manufacturer's official website.

You can visit the official ThinkFun store for more information: [ThinkFun Store](#)

## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question