



## Magic 7 travel board game

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### Summary

Remake of old board game known as Magic Seven or Hepta, originally designed by Alex Randolph.



2.41 hrs



2 pcs



0.20 mm



0.40 mm



PLA



29 g



Prusa  
MK3/S/S+

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### Game

Remake of old board game known as Magic Seven or Hepta, originally designed by Alex Randolph. In Poland it was sold long time ago (1986) as "Magiczna Siódemka" (and this one I remember from my childhood :)

As far as I know, one cannot buy this game any more, thus I decided to make a 3D print version.

This is a travel version, intended to be relatively compact. It requires 49 LEGO 1x1 round tiles (e.g. from LEGO Arts set). The tiles can be also 3D printed - model can be found here:

<https://www.printables.com/model/348098-perfect-parametric-bricks>  
("Standard tile, 1x1, round.stl")

## Printing

- Print the board and 14 pieces (7 long pieces + 7 angle pieces)
- Assemble the board by attaching 49 1x1 LEGO round tiles (7 colors x 7 tiles each) in a pattern where each color is in exactly one column and one row. The pattern on photos is the same as is original game, but I think any pattern satisfying the rule should work.

No supports required. Version presented on photos has been printed in PLA, 0.2mm layer height.

## Rules of the Game

Game can be played by 1 or 2 players

### One player variant

In this variant, the game is a puzzle. Choose a color and try to put all 14 pieces on the board in a way that chosen color is not covered.

### Two players variant

One player chooses type of pieces to play (long or angle), the opponent needs to take the other type but is allowed to choose color that will be protected.

Players put their pieces in turns (one piece at a time), starting from random player (e.g. younger). It is forbidden to put a piece that covers selected color.

If a player has no possibility to put his/her piece, the opponent continues placing pieces as long as possible. In the end, the one who placed more pieces wins (if equal then it is a tie).

Hint: try to place your pieces in a way to "reserve" space on board that can be covered only by pieces of type you are playing.

## Travel case

Not yet ready (in design), looking for inspirations...

# Model files

**magic7-piece-angle.stl**

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**magic7-piece-long.stl**

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**magic7-board.stl**

# Print files

**magic7-pieces\_02mm\_pla\_mk3s\_1h5m.gcode**

🌀 PLA 📏 0.40 mm 📏 0.20 mm ⌚ 1.08 hrs 📊 11 g 🖨 Prusa MK3/S/S+

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**magic7-board\_02mm\_pla\_mk3s\_1h20m.gcode**

🌀 PLA 📏 0.40 mm 📏 0.20 mm ⌚ 1.33 hrs 📊 18 g 🖨 Prusa MK3/S/S+

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