



## Lucky 6 - Funny Family Dice Game



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### Summary

„Lucky 6“ is a funny dice game for the whole family! This project is created entirely from 3D printable parts!



8.19 hrs



6 pcs



0.20 mm



0.40 mm



PLA



108 g



Prusa  
MK3/S/S+

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Tags: [dice](#) [boardgame](#) [dicegame](#) [familygames](#)

„Lucky 6“ is a funny dice game for the whole family, an exciting game for 2 to 6 players. From the size it can also find space in the vacation luggage. Everything needed to play is inside! ... a great 3D printed DIY gift for the grandkids! ... something unique!

The number of possible participants in the game depends on the number of tiles available. Each player should have at least have 10 game pieces. So if you want 6 players to participate, you would have to print 60 tiles.

You can find the rules of the game at the end of this posting.

## Dimensions:

- Box with playing field: L 125 x W 125 x H 60 mm
- Game piece: Ø10x30mm

## stl files to print:

- Lucky 6\_top.stl
- Lucky 6\_case.stl
- Lucky 6\_dice.stl
- Lucky 6\_gamepieces\_10.stl
- Lucky 6\_letters\_big.stl
- Lucky 6\_letters\_small.st

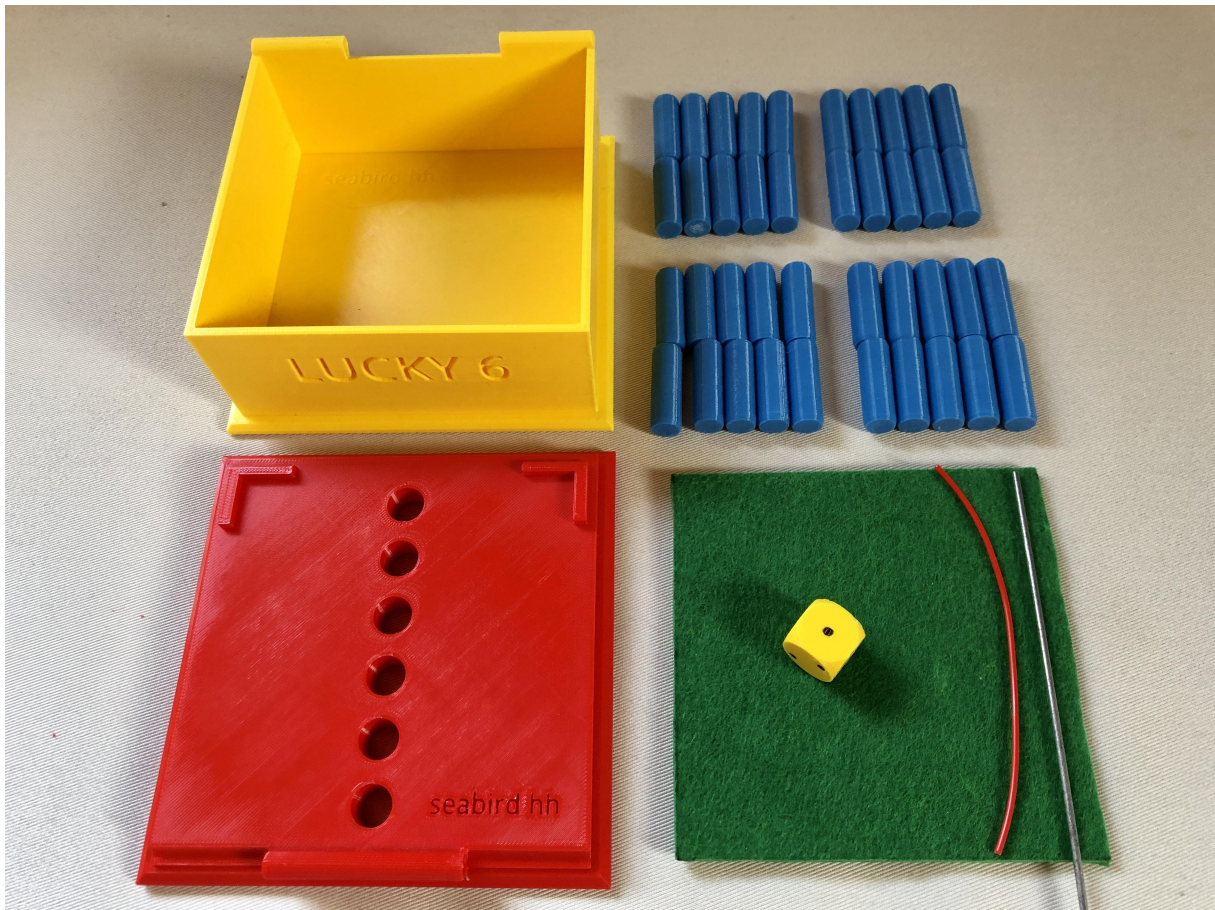
After you have printed all parts ...

**Remark:** As all parts are designed to fit very precisely, it may happen that you have to rework one or the other part a bit with sandpaper and/or cutter due to different dimensional accuracy of the printers and the different behavior of the filaments.

## Supplies

- 115mm filament for the hinge (or rod Ø 2mm and 115mm long, e.g. from the metal bars of wire hangers)
- super glue
- tweezers
- small screwdriver (for inserting and pressing the inlays)
- possibly screw clamps or any heavy object (and small metal/wood plate (to fix the inlays in their recesses).
- Optional: felt plate 109x109x3mm

## Required parts overview



### Inserting Inlay - Top

After you have printed „Lucky 6\_top.stl“ start with inserting the inlays "Lucky 6\_letters\_small.stl". To grab the single letter, I used a pair of tweezers.

Make sure that you do not insert the letters the wrong way round. This can - especially with the "K" - cause problems!

When gluing the letters, be very careful. Only very small amounts of superglue should be applied ... a little is more!





### Inserting Inlay - Case

Go on inserting the inlays "Lucky 6\_letters\_big.stl" to the „Lucky 6\_case.stl“ front. Again, make sure that you do not insert the letters the wrong way round. This can - especially with the "K" - cause problems!

When gluing the letters, be very careful. Only very small amounts of superglue should be applied ... a little is more!

To press the inlays in their recesses take a small metal/wood plate and fix it with screw clamps.

If the insertion of the letters seems too complicated, you can of course do without it. The name of the game is still clearly visible due to the inset lettering.





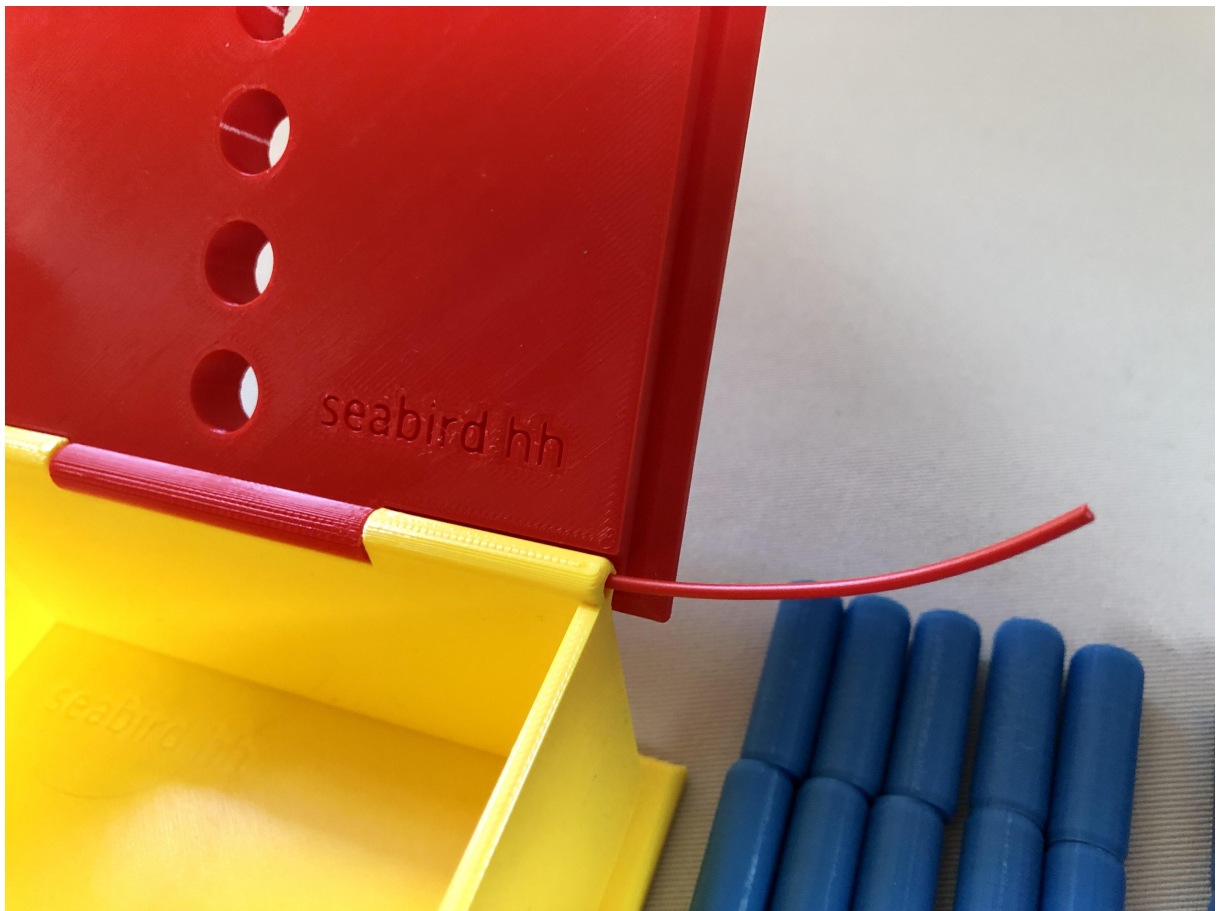


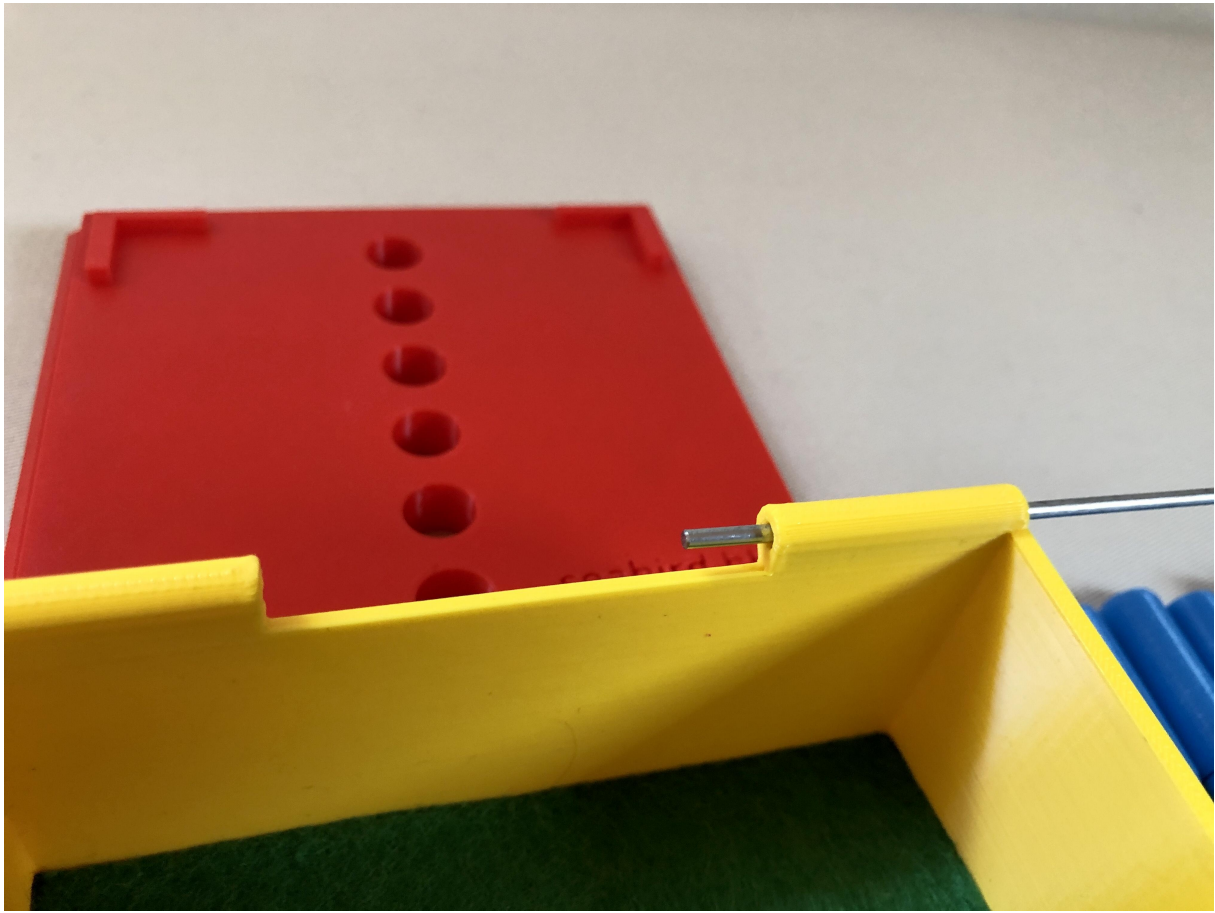
### **Connect Case and Top**

To connect case and top, take a piece of filament (115mm) and insert it sideways into the hole. Hold the top part in position.

Do not try to straighten the bend of the filament. The bend ensures a better fit.

If you think that this is not stable enough, you can use as an alternative a rod  $\varnothing$  2mm and 115mm long, e.g. from the metal bars of wire hangers. This is - to be honest - the better solution!





**Game Pieces**

Choose a color that contrasts with the playing surface as much as possible.

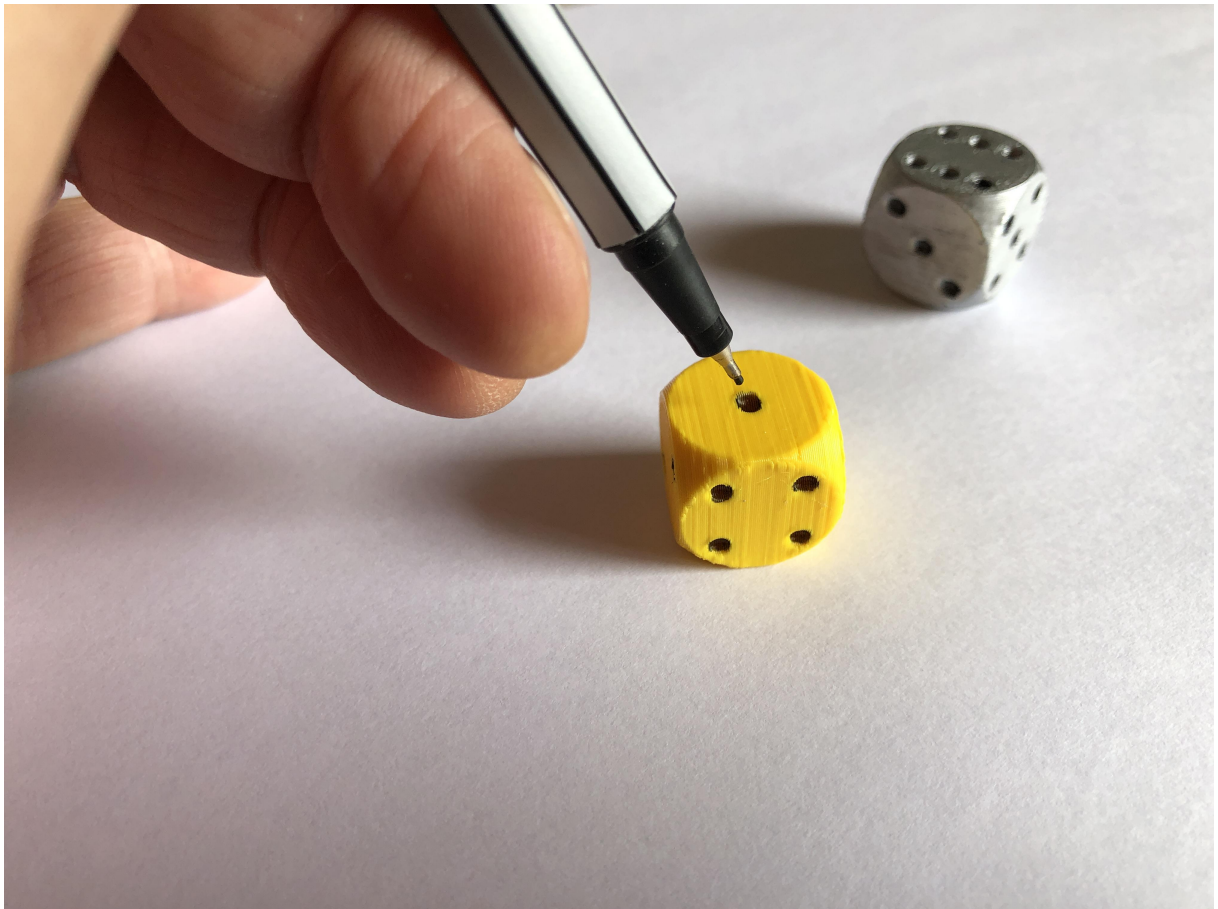
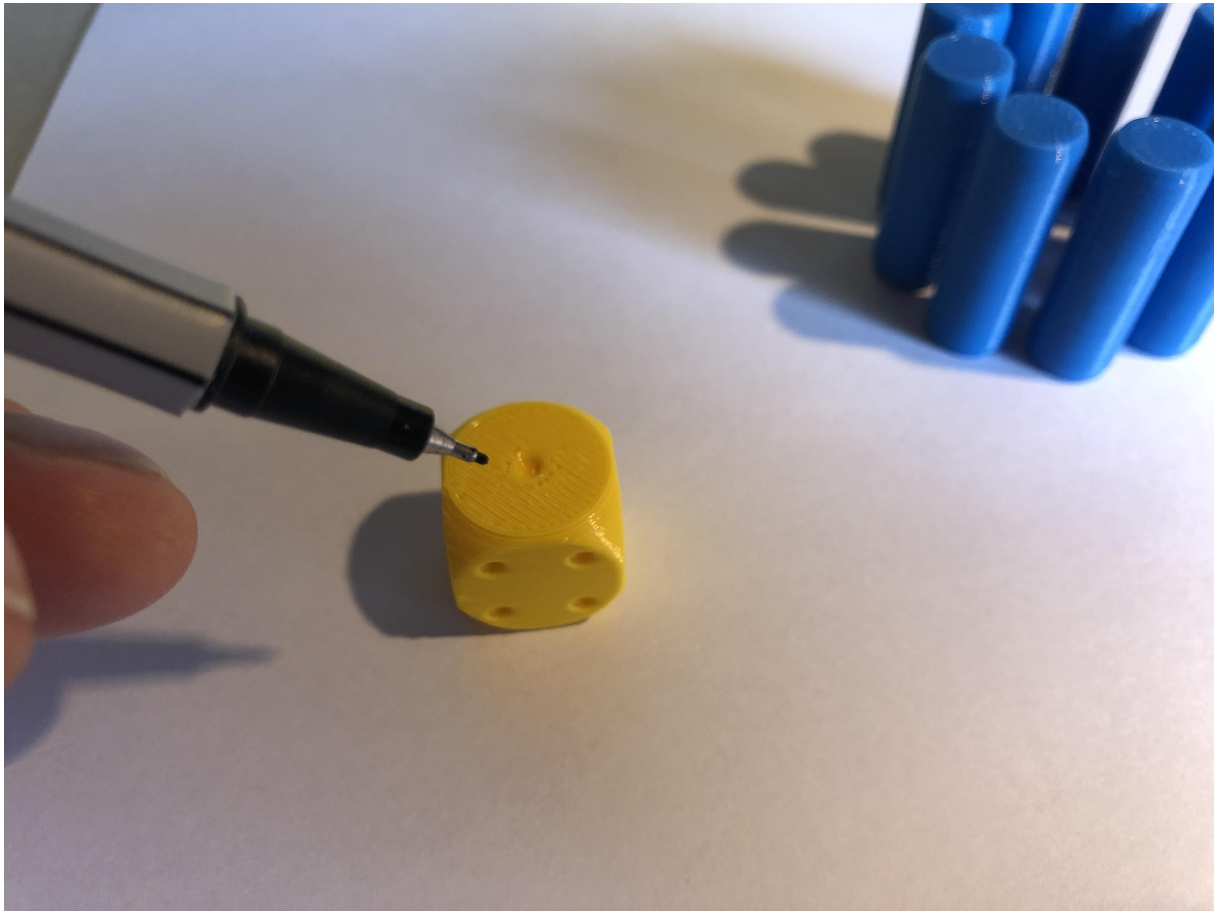
You can print the tiles in packs of ten. I recommend to print at least 40 pieces. So you can play with 4 people.



### **Dice - Color the Dots**

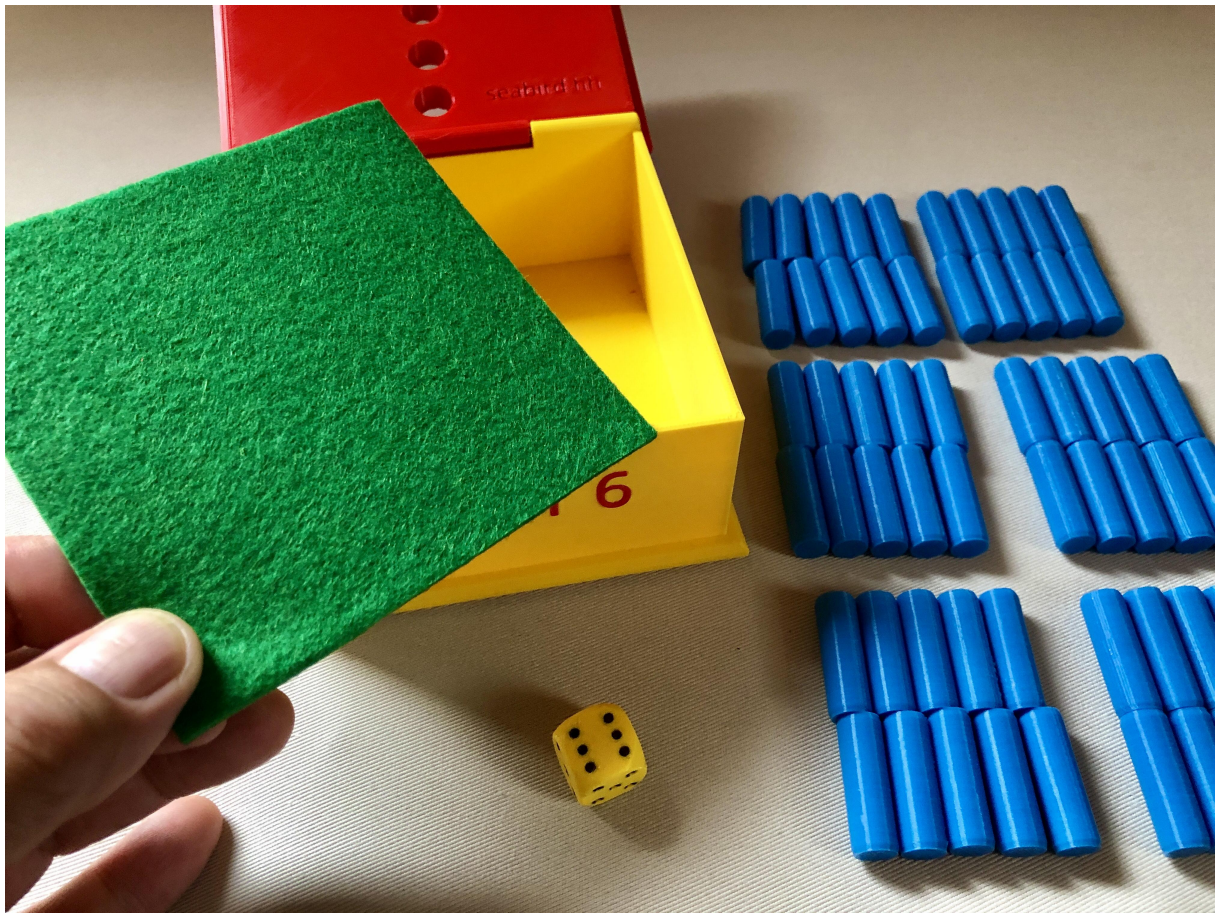
After you have printed the dice, you should color in the dots to make them more visible. I used a black fineliner for this. You have to be very careful and don't hold the pen too long on one spot, otherwise there is a risk that the ink will spread on the surface of the material.

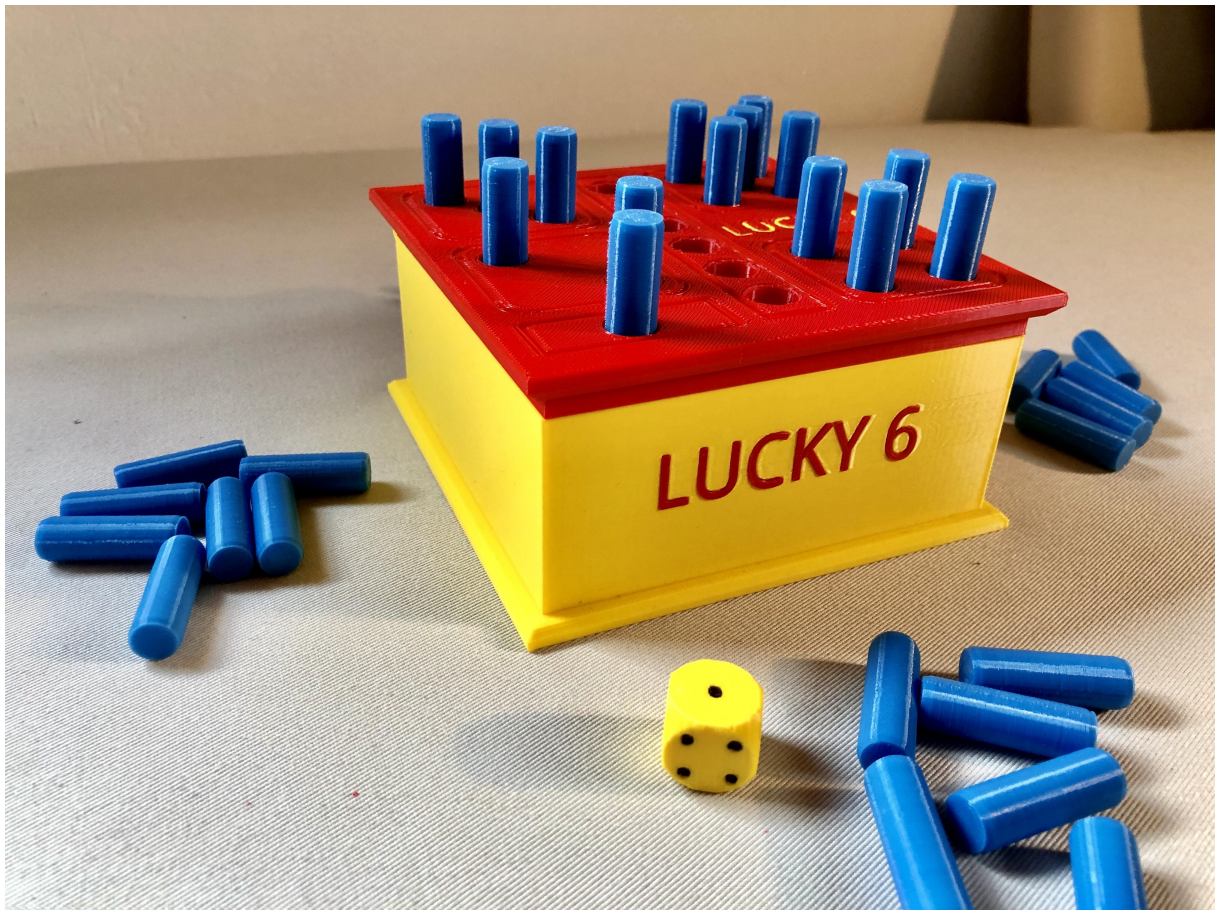
Of course, you can also use an Edding with a fine point (1mm). But you have to be even more careful with it.



**Optional: Felt Inlay**

To reduce the rattling in the box you can cut a piece of felt for the bottom (109x109mm).





## Game Rules

**Age:** from 4 years - **Attention:** „Lucky 6“ is not recommended for children under 3 years due to small parts which may be swallowed.

Distribution of the game pieces:

- 2 pers. - 30 game pieces each
- 3 pers. - 20 each
- 4 pers. - 15 each
- 5 pers. - 12 each
- 6 pers. - 10 each

There are different game rules with different interpretations. I have picked out a simple version here which is easy to remember!

Game rules:

- 60 pieces are distributed evenly to the players (each player should have at least 10 pieces).
- The players take turns rolling the dice clockwise and placing a piece on the corresponding number field.
- If a player hits an occupied number field, he must take all the game pieces that are on that number field and it is the next player's turn.

- If a player rolls a "Lucky 6", he may throw a token through one of the holes in the 6's row in the middle of the playing field and may roll the dice again. **But he does not have to!** This is then a tactical question. If all the number fields are more or less occupied, the player renounces his second throw.
- The winner is the first player to have no tiles left.

Have fun!

## Model files



lucky-6\_case.stl

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lucky-6\_top.stl

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lucky-6\_letters\_small.stl

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lucky-6\_letters\_big.stl

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lucky-6\_gamepieces\_10.stl

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lucky-6\_dice.stl

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lucky-6\_allprintparts.stl

# Print files



## lucky-6\_letters\_big\_02mm\_pla\_mk3s\_3m.gcode

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 0.05 hrs ⚖️ 5 g 🖨️ Prusa MK3/S/S+



## lucky-6\_letters\_small\_02mm\_pla\_mk3s\_2m.gcode

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 0.03 hrs ⚖️ 3 g 🖨️ Prusa MK3/S/S+



## lucky-6\_dice\_02mm\_pla\_mk3s\_25m.gcode

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 0.42 hrs ⚖️ 2 g 🖨️ Prusa MK3/S/S+



## lucky-6\_case\_02mm\_pla\_mk3s\_7h41m.gcode

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 7.69 hrs ⚖️ 98 g 🖨️ Prusa MK3/S/S+



## lucky-6\_gamepieces\_10\_02mm\_pla\_mk3s\_1h57m.gcode

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 1.95 hrs ⚖️ 15 g 🖨️ Prusa MK3/S/S+



## lucky-6\_top\_02mm\_pla\_mk3s\_5h38m.gcode

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 5.63 hrs ⚖️ 69 g 🖨️ Prusa MK3/S/S+

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