01 All-Edges Coverage

Puzzle Goal: **Cover the all edges of the hexagon with the band so that the all six holes are screened off from both sides.**

Materials: Acrylic board, nonwoven fabric

Classification: 1.2. 3-D Assembly

Notes: No undue force is required.

02 Animal Cube (Goat, Cabbage and Wolf)

Puzzle Goal: **This is a Rubik's Cube with thematic restricted movement:**

- **A face with goat cannot go past the face with cabbage**
- **A face with a wolf cannot go past a face with a goat**

Materials: 3D-printed plastic

Classification: 5.4. Rotational

03

Art Nouveau

Puzzle Goal: **Pack all six pieces into the tray.**

Materials: Various solid woods

Classification: 1.1. 2-D assembly puzzle

04

BQTTLE

Puzzle Goal:

- **Remove the chain from the ring.**
- **Loop back the chain on the ring (the cap must not be screwed off.)**

Materials: Glass, metal, rubber

Classification: 4.3. Disentanglement string puzzle

05

Caramel Box

Puzzle Goal:

- **Pack the three teak pieces into the box.**
- **Pack the three reddish brown (pao rosa) pieces into the box.**

Materials: Steel, Wood (teak, pao rosa)

Classification: 1.2. 3-Dimensional assembly

06

Cassette

Puzzle Goal: **Take the four pieces apart, and restore the original shape.**

Materials: Aluminium

Classification: 4.4. Disentanglement

07

Cast U&U

Puzzle Goal: **Separate the two U-shaped bolts.**

Materials: Metal

Classification: 4.1. Disentanglement

08

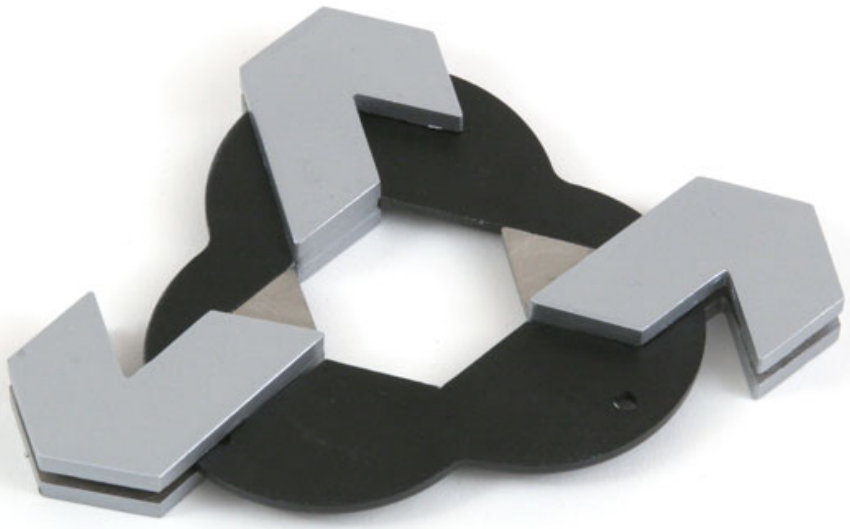
Claws of Satan

Puzzle Goal: **Disassemble the three pieces from the plate.**

Flip the board, then re-assemble the three pieces inside of the plate.

Materials: Steel

Classification: 3.6. Miscellanrous Interlocking



09

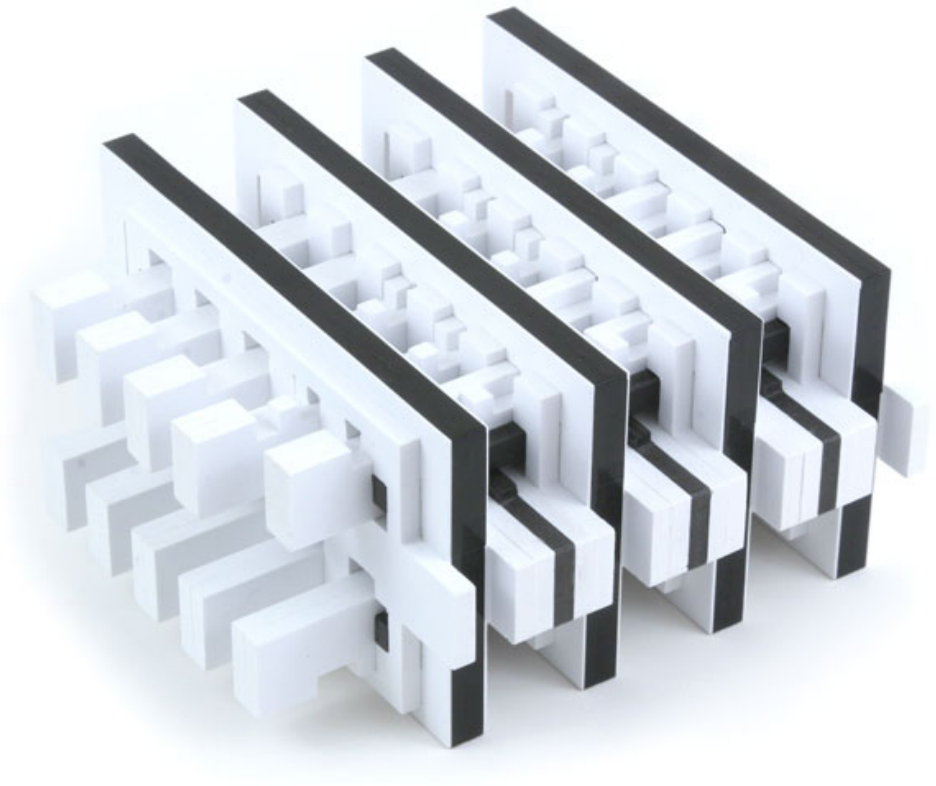
Complementary P-arity

Puzzle Goal:

- **Disassemble.**
- **Reassemble to restore the given shape.**

Materials: Vinyl

Classification: 5.6. Miscellaneous sequential movement



10 Conjuring Conundrum

Puzzle Goal: **Open the briefcase. Then assemble the pieces found inside to form a magic-themed image.**

Materials: 3D printing, metal wand, acrylic pieces

Classification: 2.1. Trick Opening; OPN-BOX and 1.1. 2-D Assembly; ASS-STRA

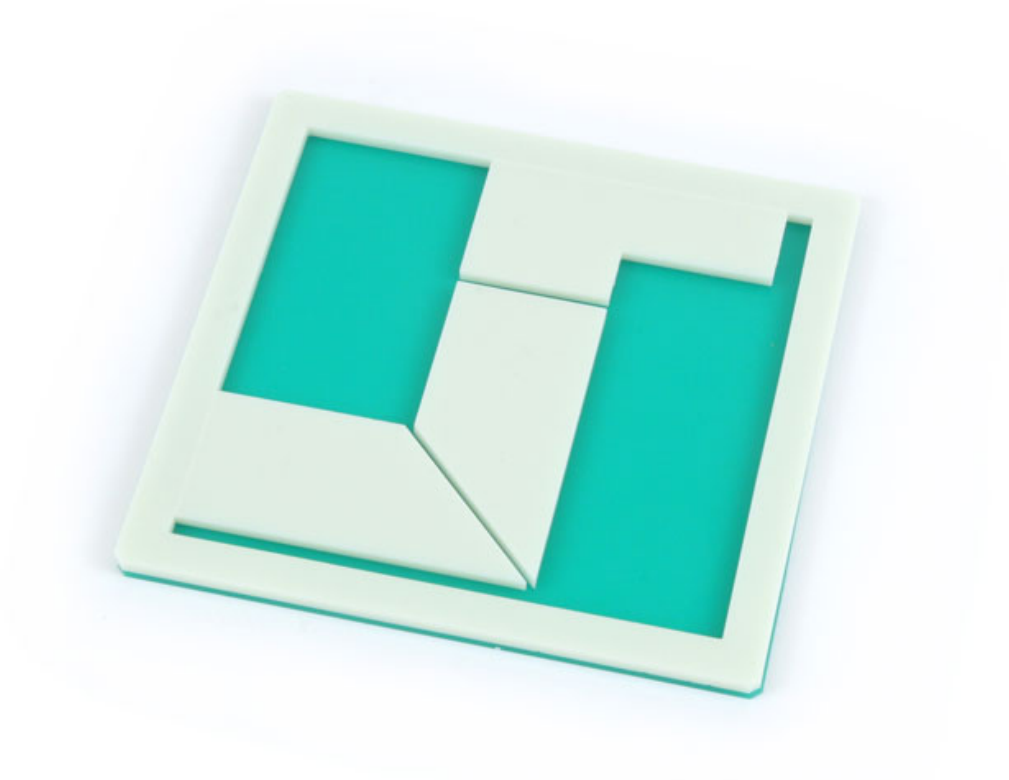
11

Copy Device

Puzzle Goal: **Arrange the three pieces in the tray to make two green areas that are identical.**

Materials: Acrylic

Classification: 1.1. Silhouette



12

Coronation Cube

Puzzle Goal: **Assemble the seven different pieces to form a 5 x 5 x 5 cube.**

Materials: 3D printed PLA

Classification: 3.2. Interlocking solid

13

Cross Links

Puzzle Goal: **Disassemble; reassemble.**

Materials: Wood: cocobolo, paela, ebony, mahogany

Classification: 3.2. Trick Opening; OPN

14

Cubic Dress

Puzzle Goal: **Wrap a cube with the looped cloth.**
(Fasten it with a clip so as not to come off.)

Materials: Cotton ,wood (teak), alminum

Classification: 1.2. 3-Dimensional assembly

15

Day and Night

Puzzle Goal: **Interchange the rings.**

Materials: Wood, plastic, and perlon rope

Classification: 4.3. String Disentanglement

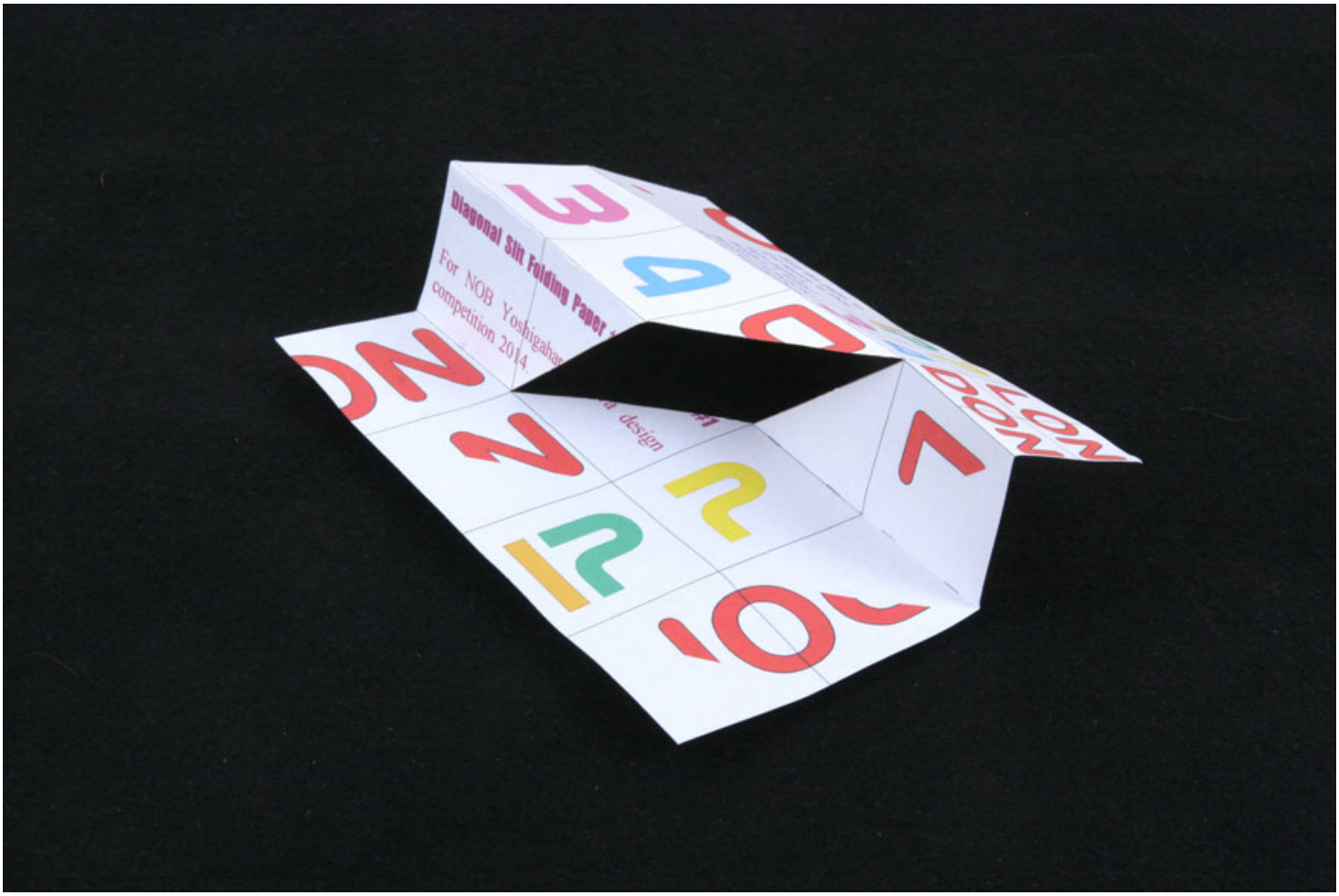
16 Diagonal Slit Folding Paper #1

Puzzle Goal: **Fold the paper to separately make two different patterns:**

- **IPP/34**
- **LON/DON**

Materials: Paper

Classification: 9. Paper folding



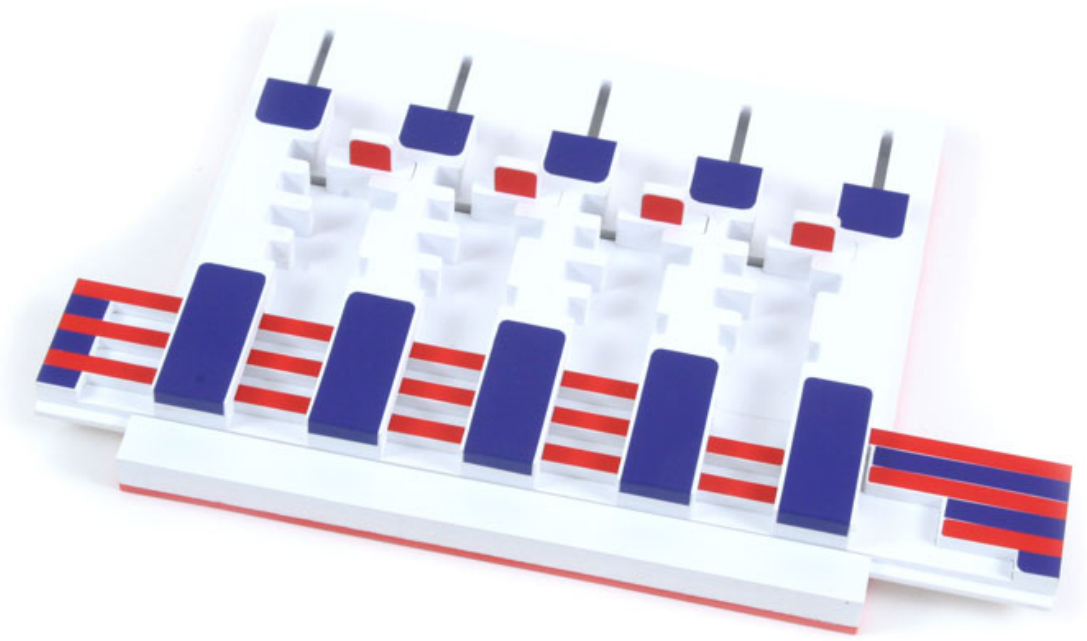
17

Digi Fork-Lock

Puzzle Goal: **Free the slider, and then re-lock it completely.**

Materials: Vinyl

Classification: 5.6. Miscellaneous Sequential Movement



18 Don't Shout Box

Puzzle Goal: **Open the box: eight moves.**

Materials: Wood: walnut, maple, sapele, etc., satin pre-cat lacquer

Classification: 2.1. Trick or secret opening puzzle

19

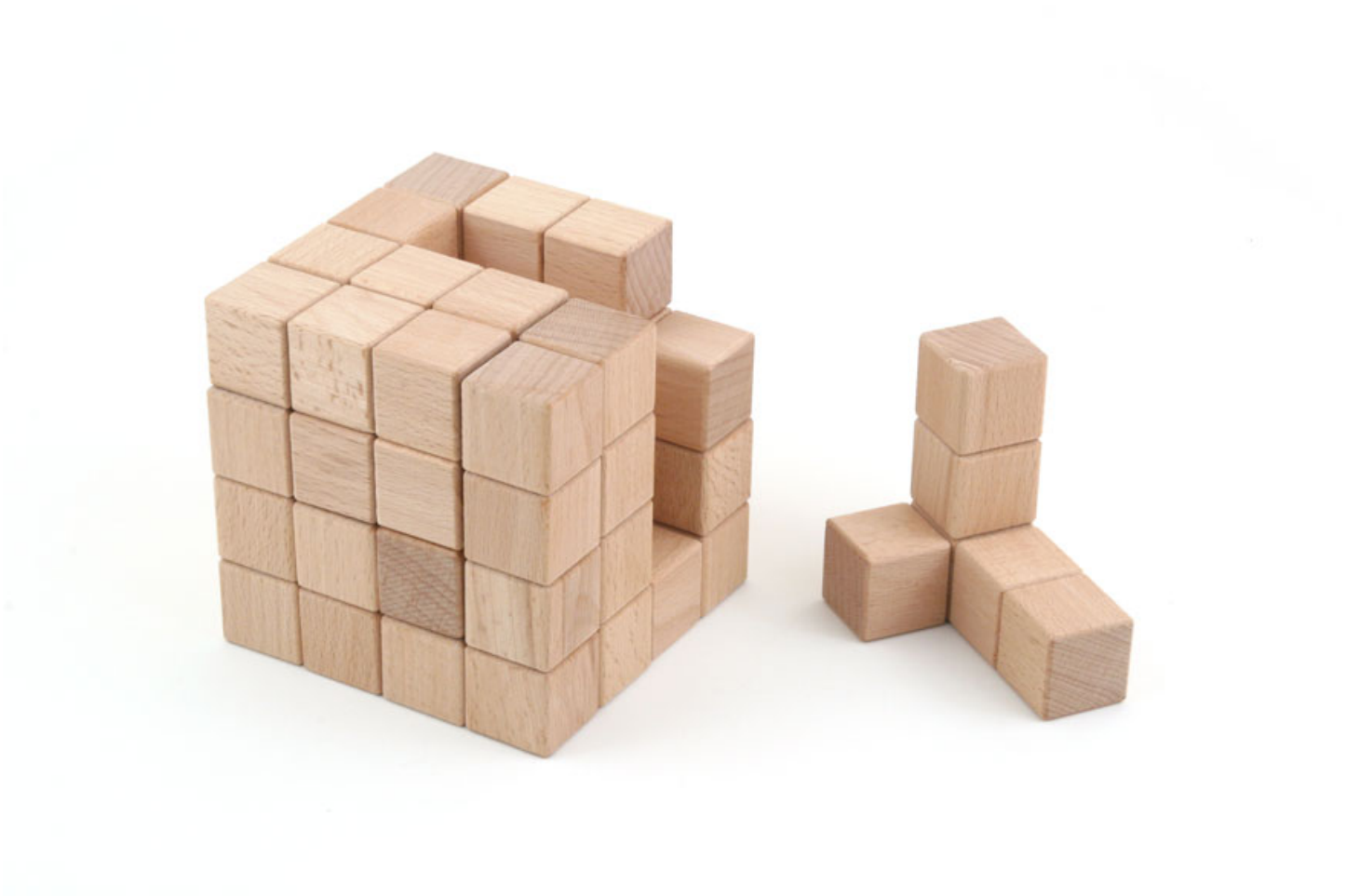
Dubio 64A

Puzzle Goal:

- **Make a 4x4x4 cube using all the pieces.**
- **Make 2 cubes using all the pieces.**

Materials: Wood

Classification: 1.2. Put-together



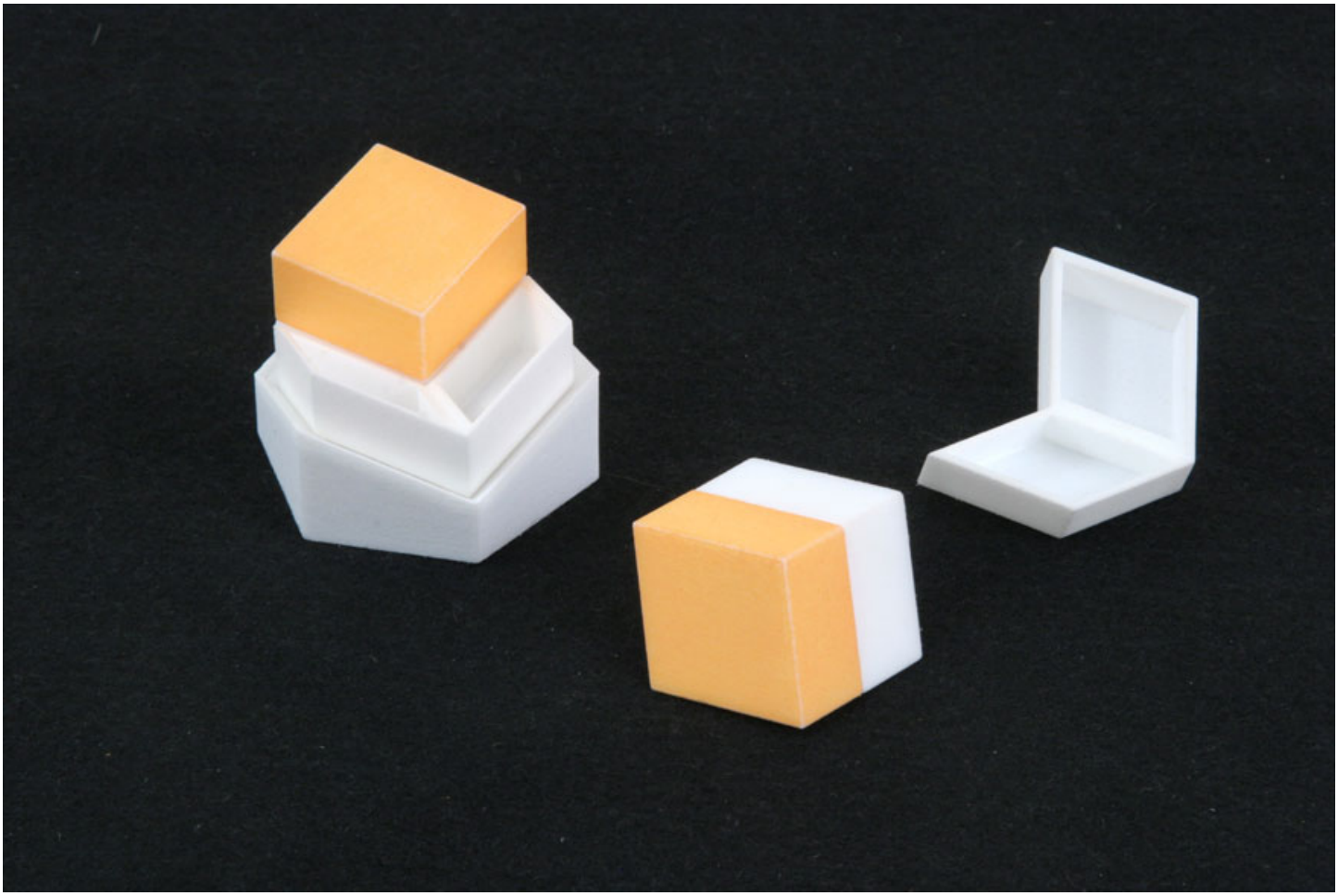
20

Ei Ei Ei

Puzzle Goal: **Place the four pieces into the tray so that all twelve outside faces of the the rhombic dodecahedron (egg) are the same color.**

Materials: 3d print, colored by the inventor

Classification: 1.2. 3-D Assembly; ASS-POLY



21 The Fairy's Door Puzzle Box

Puzzle Goal: **Open the box; close the box.**

Materials: Wood: mahogany, oak, maple, katalox

Classification: 2.1. Opening puzzle; OPN

22

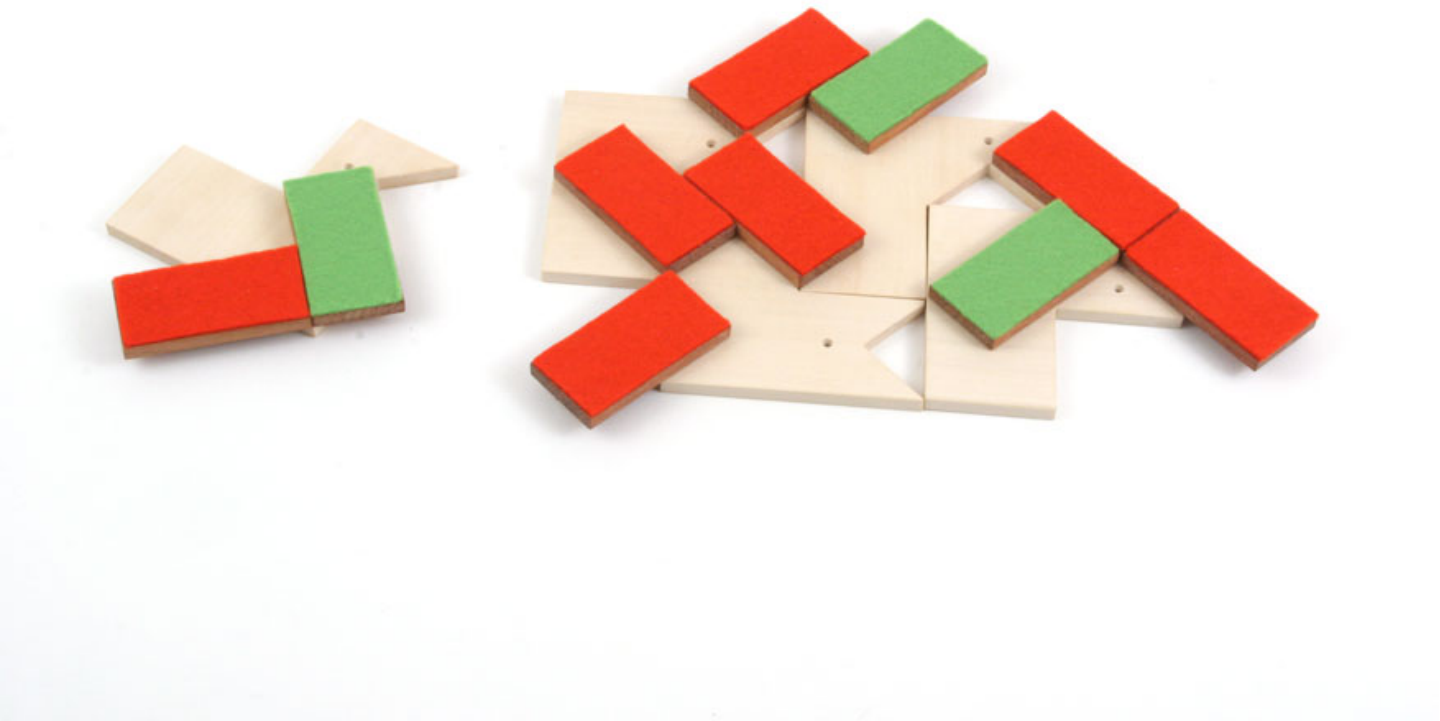
Five Worms

Puzzle Goal: **Arrange the five worm-like pieces (light wood) so that all the green and red pieces (felt) form a second layer and fit within the delimitation of the worms.**

After you successfully solved the puzzle, you will discover what happened with the worms!

Materials: Wood, felt

Classification: 1.2. Put-together



23

Football Match

Puzzle Goal: **Move the football from the right to left goal (without leaving the second layer).**

Materials: Acryl

Classification: 5.3. Sliding Piece

24

4 in 1

Puzzle Goal: **Assemble any four parts into the big mouth.**

Materials: Acrylic

Classification: 1.1. Put-together

25

42

Puzzle Goal: **Disassemble, and reassemble the 42-piece ring.**

Materials: Nylon

Classification: 3.1. Interlocking

26 Frustrating Mosaic

Puzzle Goal: **Assemble the dodecahedron without opening the box.**

Materials: Laser-cut acrylic, 3D printed PLA, magnets, wood

Classification: 6.4. Miscellaneous dexterity

27

The Golden Ratio Box

Puzzle Goal: **Open the secret compartments.**

Materials: Roasted birds eye maple, padauk, curly maple, and aluminum

Classification: 2.1. Trick or secret opening box

Notes: No banging or hittting required.

28

Grant's Tomb

Puzzle Goal: **Remove the sarcophagus from the glass enclosed tomb and then free Grant from the sarcophagus.**

Materials: Assorted hardwoods, brass inlay, glass slide cover

Classification: 2.1. Puzzle Box.

29

Infinity

Puzzle Goal: **Remove the rope loop.**

Materials: Wood, nylon

Classification: 4.3. String Disentanglement; TNG

30

Ladybird

Puzzle Goal: **Remove the coin.**

Materials: Trespa, acryl, pins

Classification: 5.6. Sequential Movement

31

Ms. Pack-Man

Puzzle Goal: **Fit the five pieces flat within the tray.**

Materials: Acrylic, PC/ABS

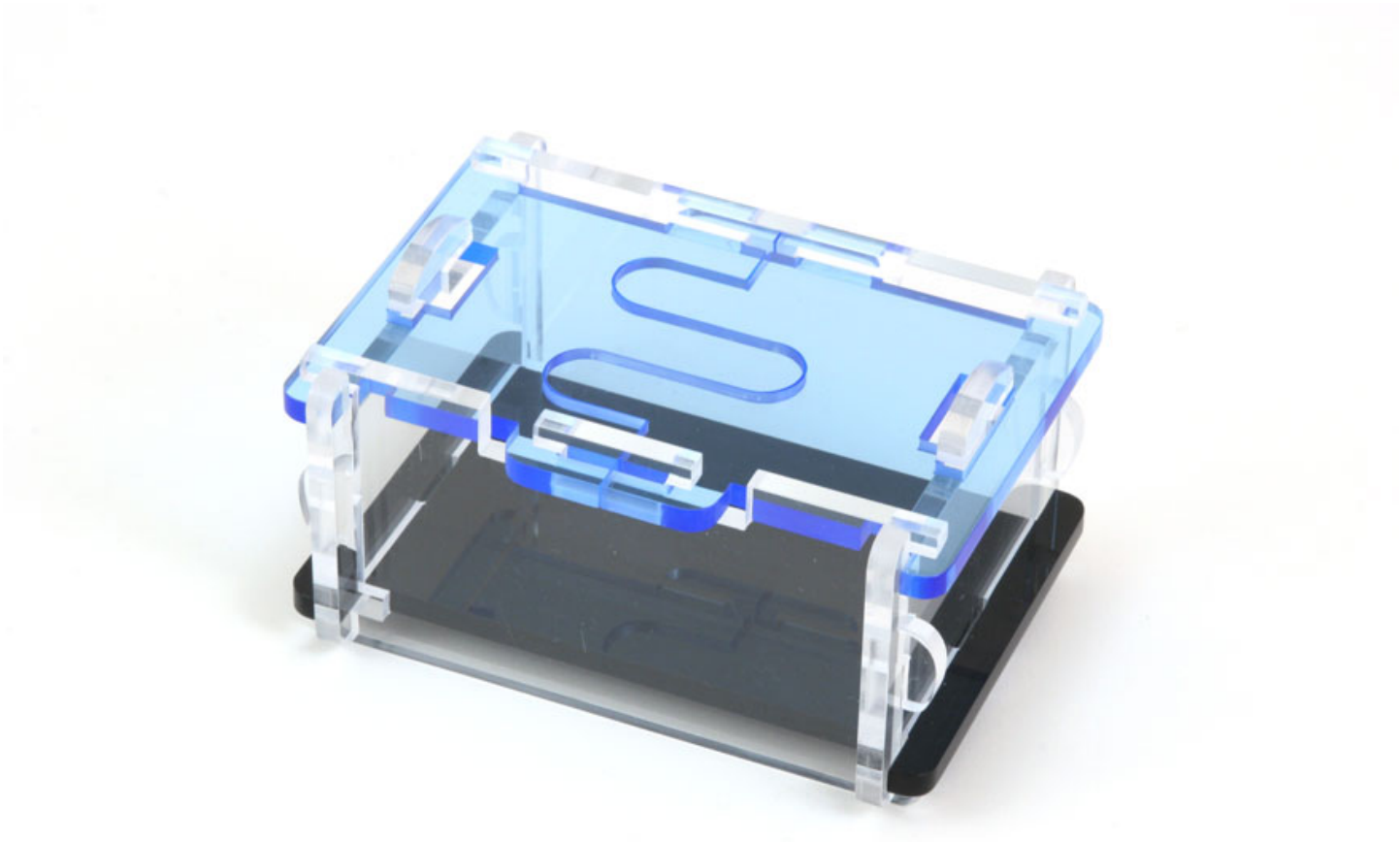
Classification: 1.1. 2D Put Together - Packing - Dissimilar Pieces

32 Naked Secret Box "BLUE"

Puzzle Goal: **Open the box, and take all pieces apart.**

Materials: Acrylic board

Classification: 2.1. Take-Apart / OPN-BOX



33

NumLock

Puzzle Goal: **Remove the pieces from the cage, and reassemble.**

Materials: Wood: cherry, canarywood and East Indian rosewood

Classification: 3.6. Miscellaneous Interlocking Solid

Notes: The front panel can be removed to quickly reset the puzzle.

34 One Flower

Puzzle Goal: **Assemble two pieces at center of the frame.**

Materials: Wood

Classification: 1.2. Interlocking

35

Ooban

Puzzle Goal: **Place the three broken oval coins into the pipe with both lids.**

Materials: Plywood, paper pipe

Classification: 1.3. Miscellaneous Put-together

Notes: This puzzle is influenced by Iwahiro's Mmmm puzzle.

36

Paper Clip

Puzzle Goal: **Remove the chain from paper clip.**

Materials: bronze, wood

Classification: 4.3. String disentanglement

37

Pent-cil Box

Puzzle Goal: **Pack all the 12 pentominoes and the pencil fully into the box.**

Materials: Wood: wenge cherry

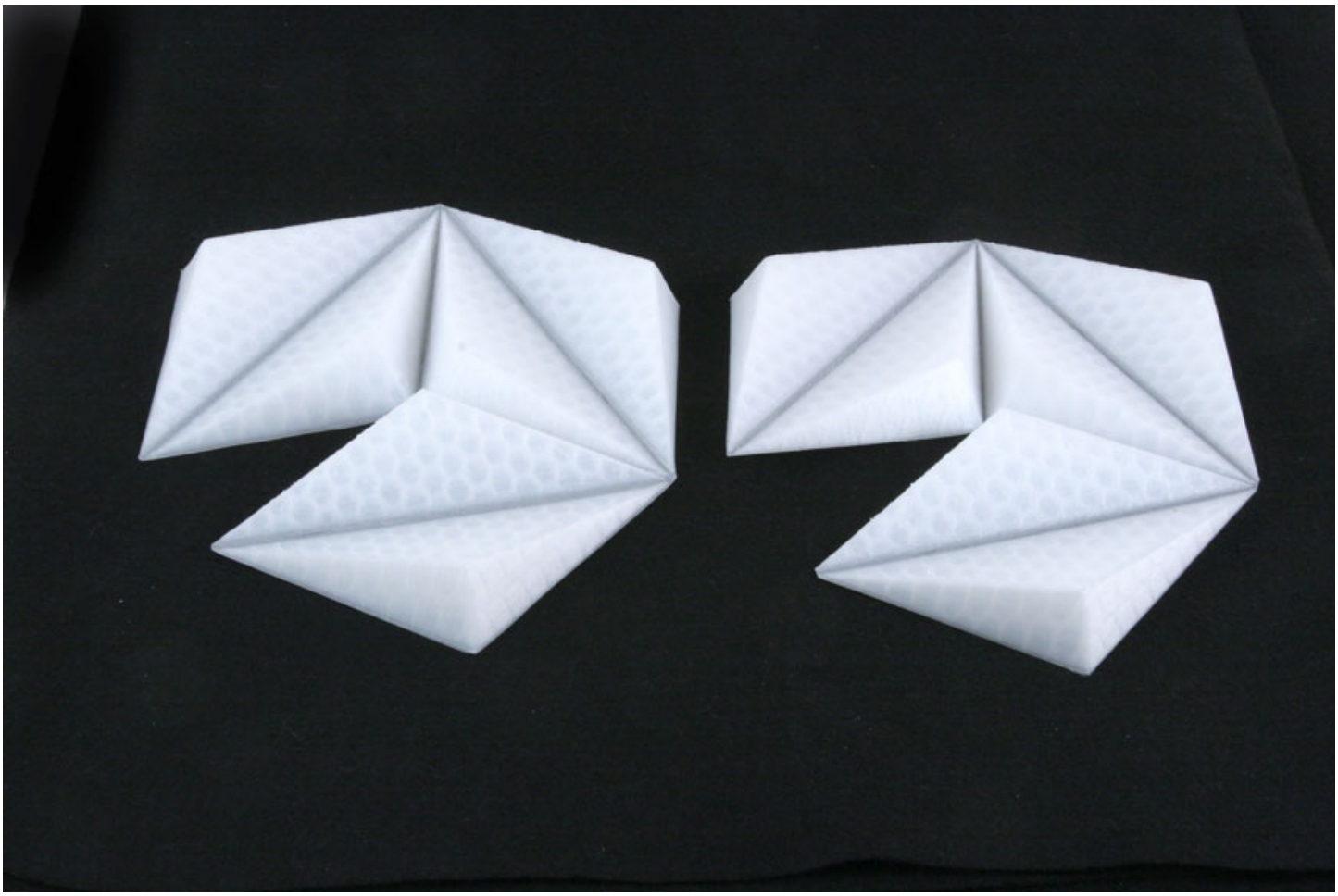
Classification: 3.2. Interlocking solid

38 Perplexing Pyramid

Puzzle Goal: **Make a regular tetrahedron from the two hinged plates.**

Materials: Nylon

Classification: 1.2. 3-D Assembly, 9. Folding; FOL/INT



39

Pillow Packing

Puzzle Goal: **Pack the six pieces into the box.**

Materials: Nylon, plastic, rubber

Classification: 1.2. 3-D Assembly

40

Pirate's Wallet Puzzlebox

Puzzle Goal: **Open box to discover two secret compartments.**

Materials: Wood: ambrosia maple, yellowheart, redheart

Classification: 2.2. Take Apart

41

Power Tower

Puzzle Goal: **Disassemble and assemble.**

Materials: Wood: bubinga, hornbeam

Classification: 3.4. Interlocking

42

RingInt

Puzzle Goal: **Disassemble and reassemble the ring.**

Materials: ABS plastic

Classification: 3.1. Interlocking

43

Rollin', Rollin'

Puzzle Goal: **Slide the block from one end to the other, rolling the cylinders out of the way as you go.**

Materials: Soft oak,hardboard, and found dowel

Classification: 5.3. 2-D Sliding Pieces

44

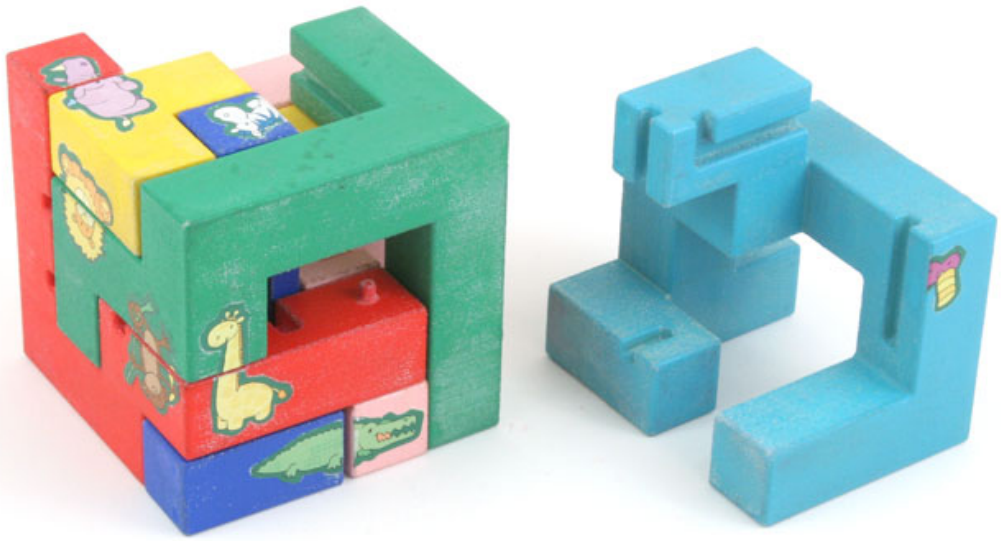
Safari Clues Cube

Puzzle Goal: **The ultimate challenge is to assemble the six pieces into a cube. There are 40 simpler challenges, each described on a card by illustrating the set of aminal figures to create on the outer surfaces.**

Materials: Plastic

Classification: 3.2. Interlocking Solid

Notes: There are pegs and slots on the surfaces of the pieces which controls part movements and adds another level of interlocking to this cube puzzle.



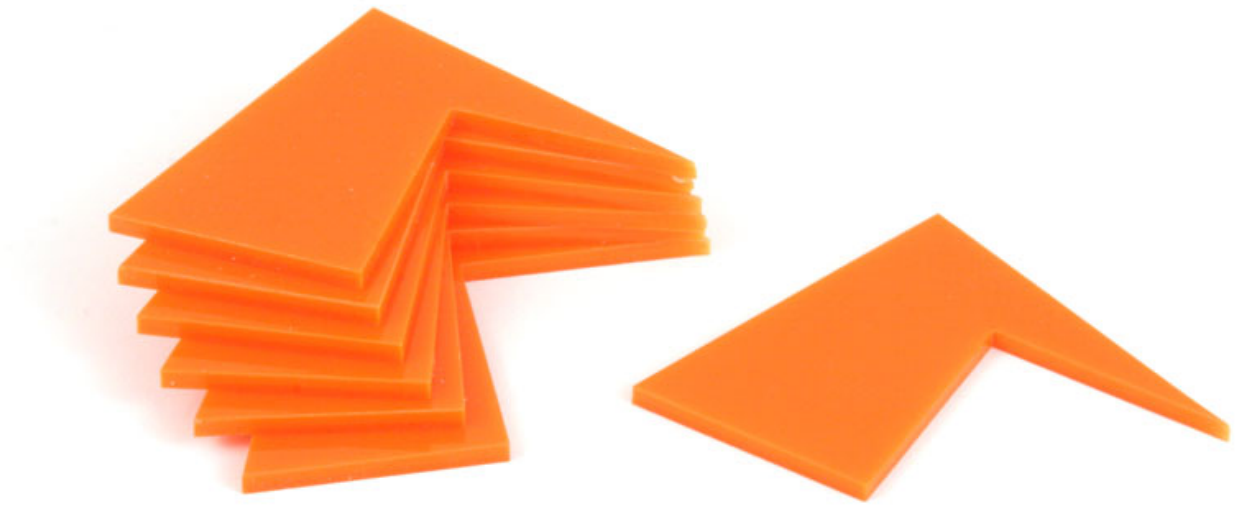
45

7-4-2

Puzzle Goal: **Make two crosses with the seven pieces.**

Materials: Acrylic

Classification: 1.1. Put-together



46

Simpleda

Puzzle Goal: **Remove the string and put it back.**

Materials: Wood, rope

Classification: 4.3. Disentanglement with string

47

Six Cube

Puzzle Goal: **Rubik's Cube mod appears like a six-piece burr.**

Materials: 3D-printed plastic

Classification: 5.4. Rotational

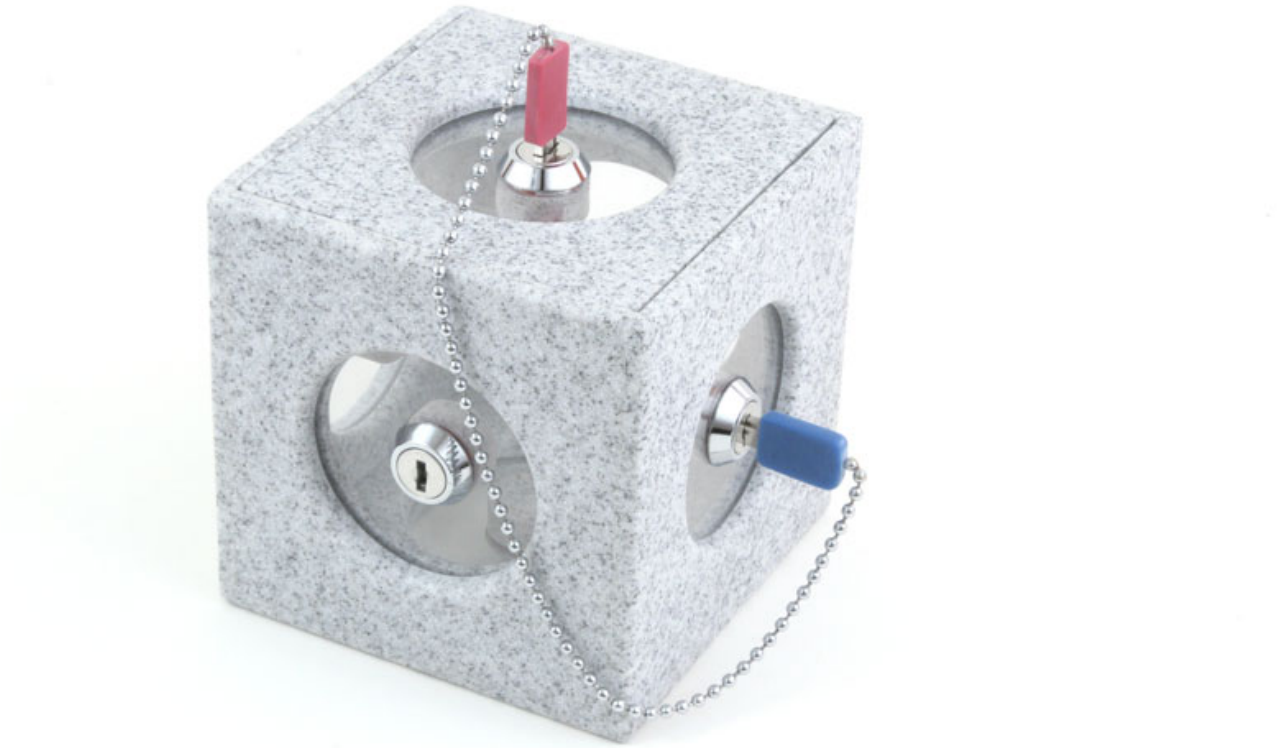
48 Six Locks: Two Keys

Puzzle Goal: **Open the box using the two keys.**
For safe keeping the keys are stored inside the locked box!

Materials: Corion, acrylic, and metal

Classification: 2.1. Trick Opening; OPN

Notes: No force is required.



49

Six Ring Circus

Puzzle Goal: **Interlock the six rings to create a sphere.**

Materials: ABS Plastic

Classification: 1.2. Assembly/Put Together

Notes: Note that each ring is flexible and may be flexed open, but no permanent deformation of the rings is required to solve the puzzle.

50

The 69 Puzzle

Puzzle Goal: **Twist and fold the 12 triangles into a cube so that the numbers outside the cube add up to 69.**

Materials: ABS, vinyl

Classification: 9. Folding Puzzle

51 Skewered Cubes

Puzzle Goal: **Insert the two cubes, separated by a spacer, into a box with a lid.**

Materials: Wood: walnut

Classification: 1.3. Miscellenous Put-Together

Notes: The box bottom, top and spacer all have pins that fit into holes in the cubes.

52 Slidoku

Puzzle Goal: **Move the 64 pieces and the eight small trays so that each row and column contains the numbers 1 to 9, including the numbers on the bottom of the large tray. Some pieces indicate their correct position within the small tray.**

Materials: Wood

Classification: 5.3. Sliding block puzzle; SEQ

53

Space Axis

Puzzle Goal: **Assemble the three pieces.**

Materials: Wood

Classification: 3.2. Interlocking

54

Sunleaf

Puzzle Goal: **Place all the puzzle pieces into the frame.There are multiple solutions.**

Materials: Plywood: beech, birch, poplar,meranti

Classification: 1.1. Put-together (jigsaw)

Notes: The sides of all pieces are complex curves, and the challenge is to recognize the possible of matching pieces.

55

Symptomino

Puzzle Goal: **Create a symmetric polyomino using:**

- **Two pieces**
- **Three pieces**
- **All four pieces**

Materials: walnut wood

Classification: 1.3. Silhouette puzzle

Notes: This is the only set of four different pentominoes which has only one solution with 2, 3 and 4 pieces.

56

Tel Arad

Puzzle Goal: **Stack the squares, one inside the other, in three layers.**

Materials: Delrin plastic, cotton thread

Classification: 1.2. 3D assembly

Notes: You may slide the threads along an edge, but not around a corner of the squares.

57

Tetra-Pack

Puzzle Goal: **Remove the cube from the tetrahedron and try to put it back in again.**

Materials: Wood: padouk and ash

Classification: 1.1. 3-Dimensional assembly

58

Thor´s Hammer

Puzzle Goal: **Disassemble and reassemble.**

Materials: Wood: maple, walnut, and leather

Classification: 3.1. Interlocking figural solid

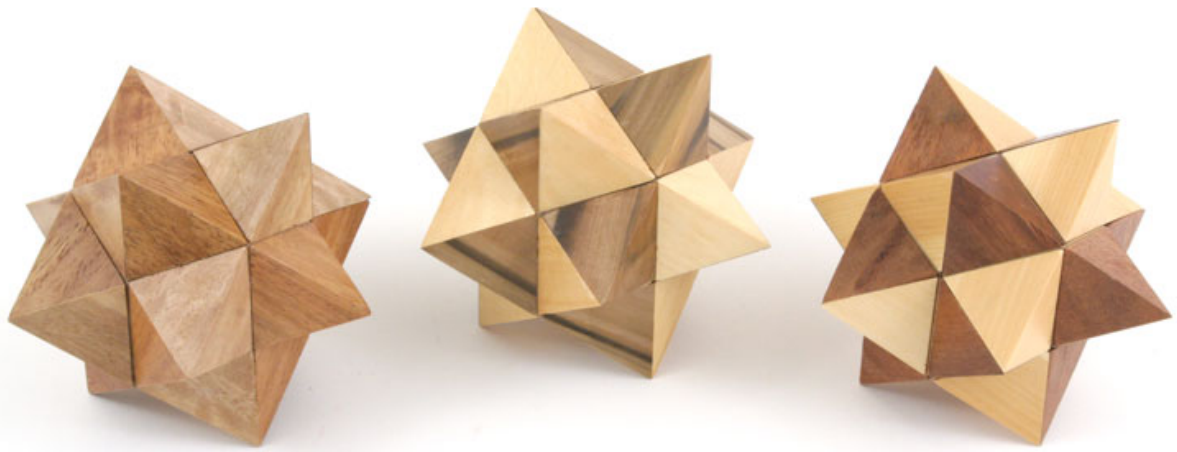
59

3 Celestial Stars

Puzzle Goal: **Dissassemble the three first stellations of the rhombic dodecahedron.**

Materials: Wood

Classification: 3.2. Geometric objects



60

3 Pentagons

Puzzle Goal: **Make a symmetric flat shape. There are three solutions.**

Materials: Wood

Classification: 1.1. Put together

61

Trinity

Puzzle Goal: **Disassemble. Reassemble.**

Materials: Wood: rosewood, bubinga

Classification: 3.1. Interlocking figural solid

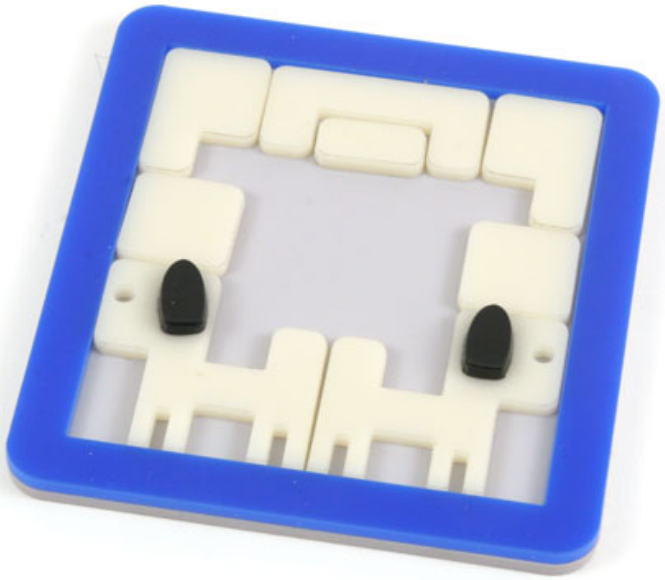
62

Two Dogs

Puzzle Goal: **Exchange the positions of the two dogs.**

Materials: Acryl

Classification: 5.3. Sliding Piece



63

Whitebox

Puzzle Goal: **Find the way through the box.**

Materials: Polyamide and stainless steel

Classification: 5.5. Maze/Sequential Movement