

1

8 Arrows Trigo Cube

Puzzle Goal:

Put the 8 pieces together to make a cube.

Materials:

Wood: Bubinga, maple, and wenge

Classification:

Serially Interlock



AMAZE

Puzzle Goal:

Move the tip of the STYLUS from START to FINISH through the maze without lifting it from the maze path.

Materials:

Plastic

Classification:

Maze/Sequential Movement

Notes:

Certain walls (positioned on four separate SLIDERS) may need to be moved by the STYLUS during play to enable immediate passage and perhaps passage at some point further down the path.

The initial positions of the four SLIDERS can be arranged in 16 different ways to change the complexity of the challenge from NOVICE to EXPERT, providing play value for people with different puzzle-solving abilities.



3

Barcode Burr

Puzzle Goal:

The goal of those who play with this puzzle should be to enjoy the motion and interactions of the pieces. Success (in the sense of a solution) is achieved when the puzzler has figured out the rules that dictate how the pieces move, and can apply that knowledge to disassemble and reassemble the puzzle.

Materials:

Macassar Ebony, Eastern Hard Maple, and 12 steel pins

Classification:

interlocking disassembly

Notes:

Only a light pushing force is required to move pieces. Any attempt to pull or pry with fingernails will not work, and will probably damage the puzzle: all pieces should be "pushed"!



4

Big Maz-N-Cube

Puzzle Goal:

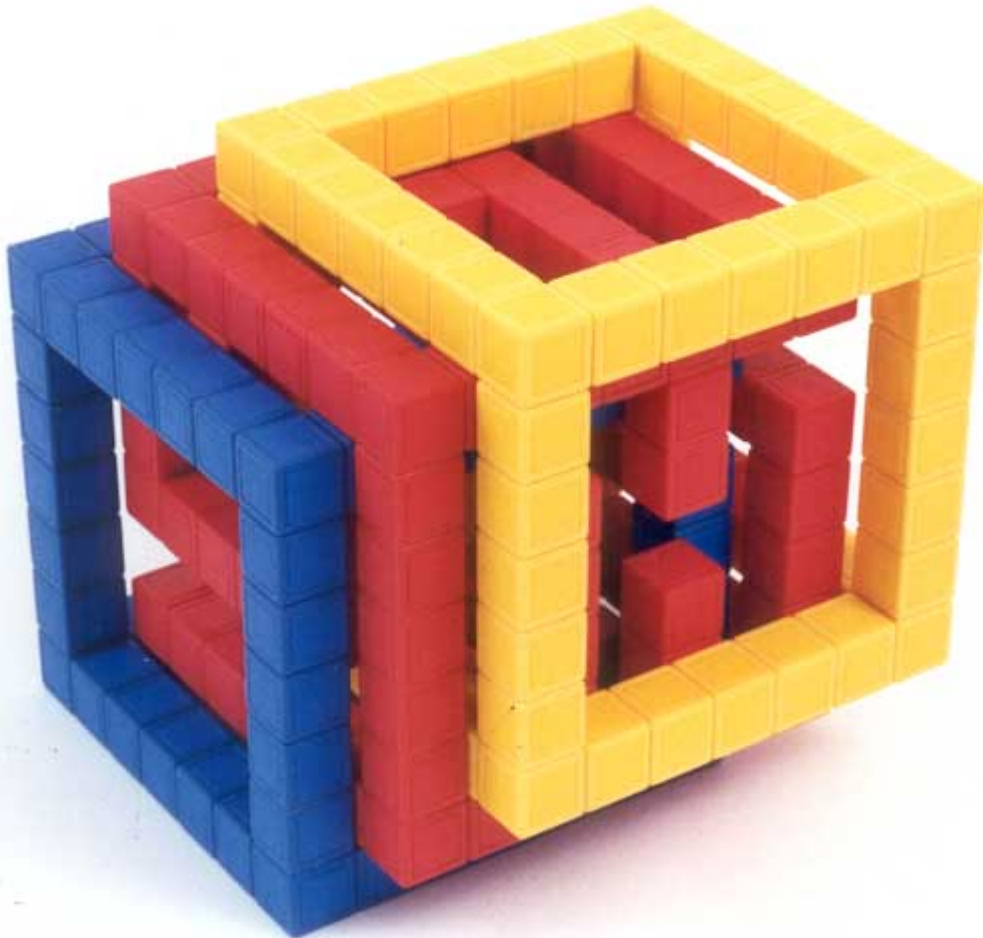
Separate the 3 cubes (without using excessive force).

Materials:

ABS & TPR plastic (Livecube)

Classification:

Interlocking / Sequential Movement



5

Box with a Key

Puzzle Goal:

Usually you turn the key and you can open the lid. But in this case -----!

Materials:

walnut, red sandalwood, etc.



BurRing

Puzzle Goal:

Disassemble and re-assemble

Materials:

Bronze

Classification:

put together/take apart

Notes:

One of the most familiar puzzles for people other than Puzzlers is the six piece Burr. My goal was to take this puzzle, distort it, and create a ring out of it. The final step was to exchange the locking piece with the wearer's finger!



7

Button Trap

Puzzle Goal:

Free the button

Materials:

Apple-tree, white walnut

Classification:

Take Apart Puzzle



8

Cross in Circle

Puzzle Goal:

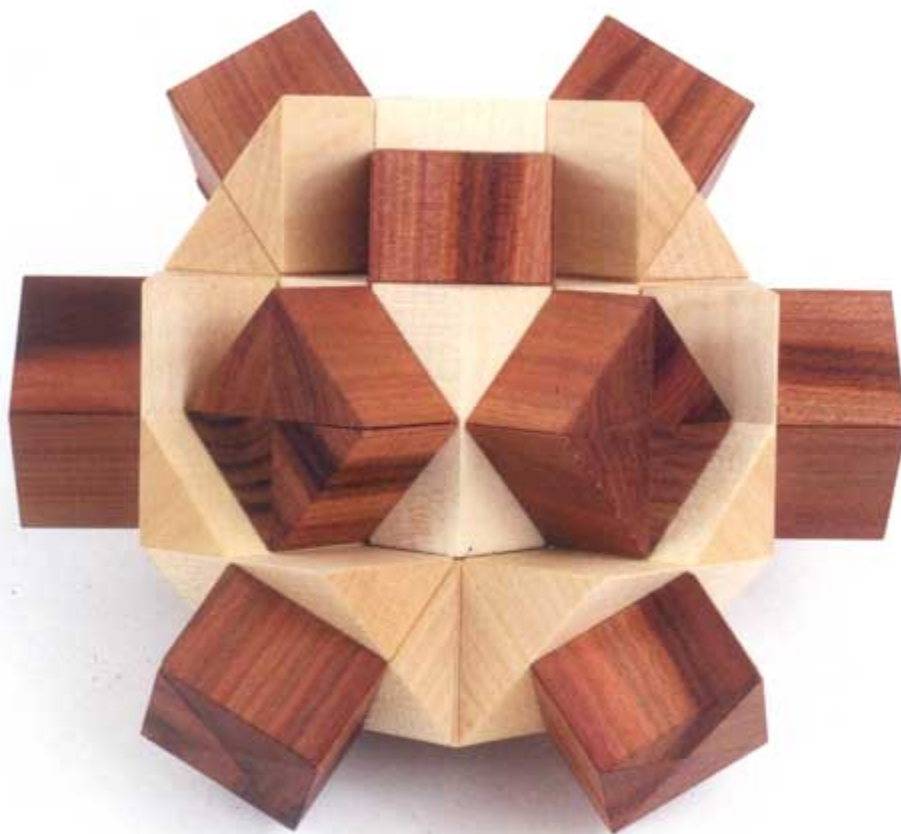
Locate the cross inside the circle

Materials:

Maple, plum-tree

Classification:

Put Together Puzzle



9

Cube Bi-section

Puzzle Goal:

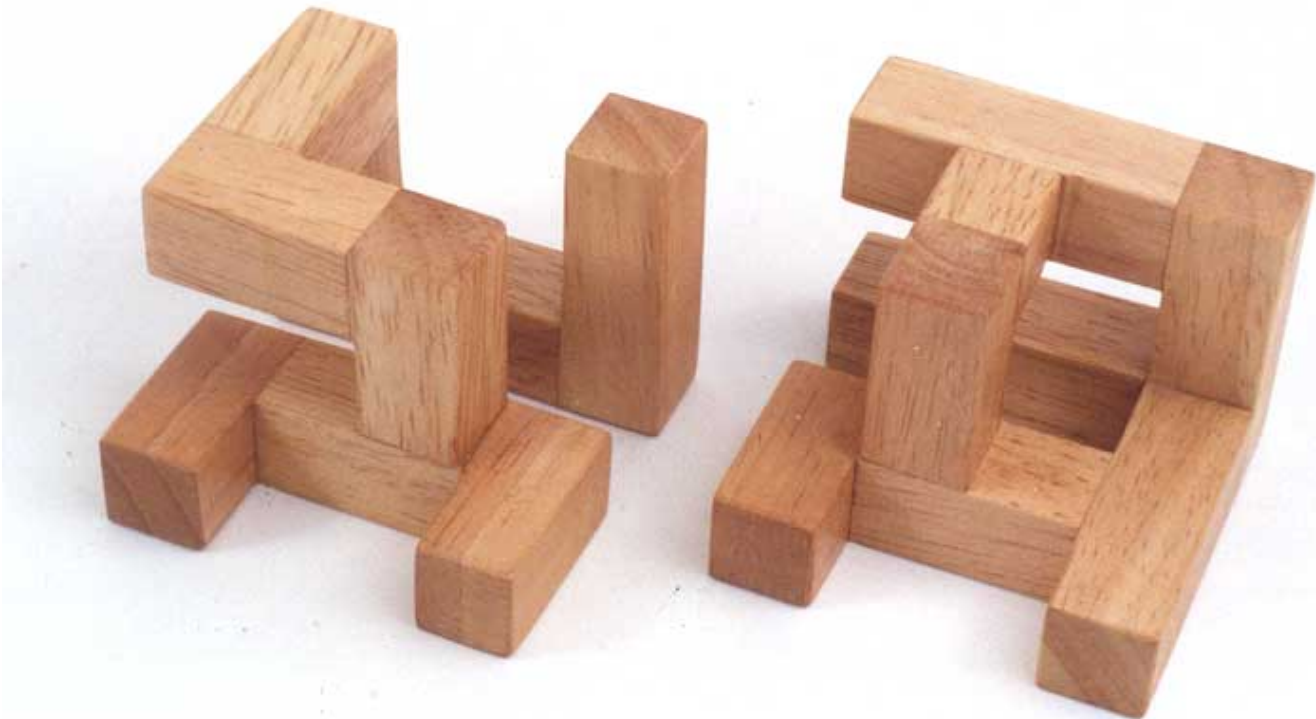
Form a fractalized cube.

Materials:

hardwood

Classification:

Interlocking Assembly



10

Cubyx

Puzzle Goal:

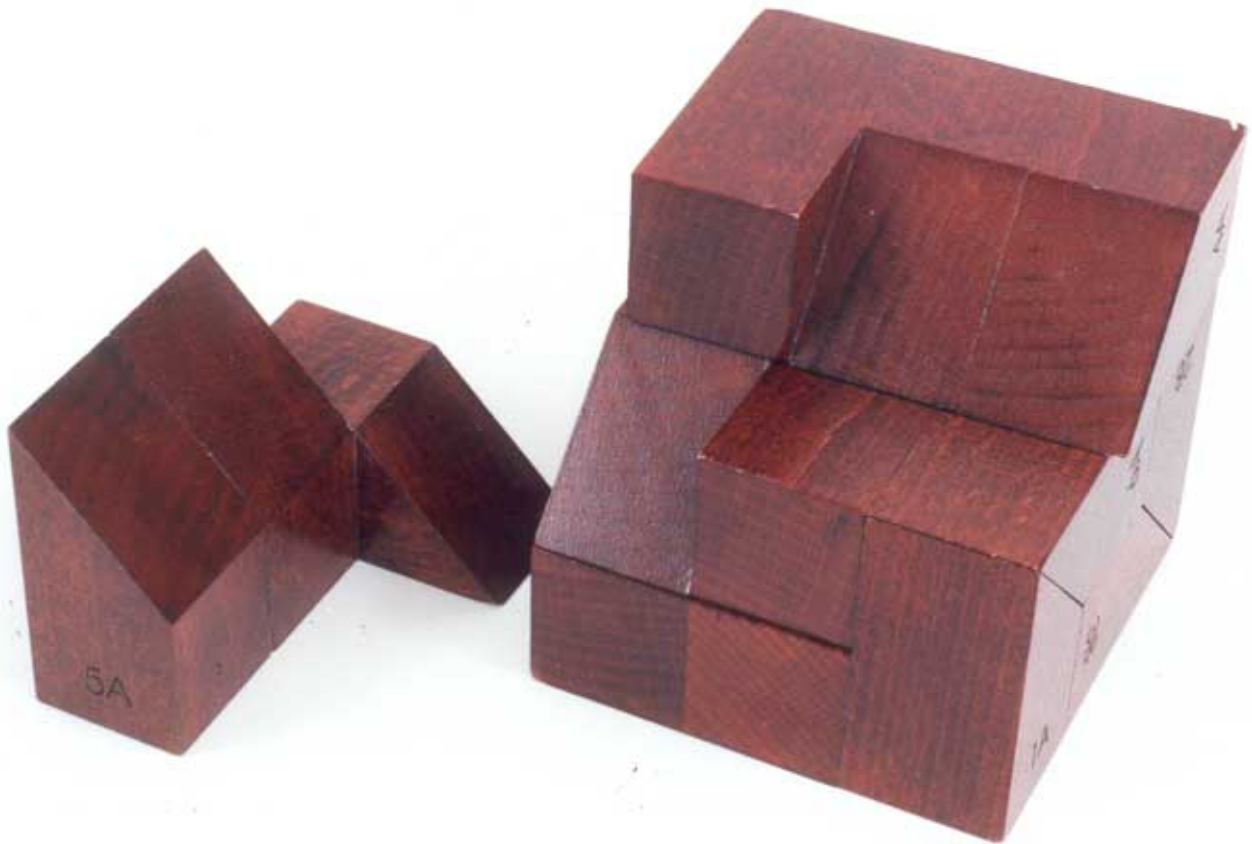
Make a box by combining 6 unique 3-D tiles

Materials:

Solid wood

Classification:

Put-together



11

Cup Case

Puzzle Goal:

Place four Cup pieces flat in the frames.

Materials:

MDF board

Classification: 2D put-together



12

Dodecahedron Box

Puzzle Goal:

Match up the mosaic to open the box.

Materials:

Bubinga, Wenge, Maple hardwoods.

Classification:

Sequential Movement



13

Double Crossed Puzzle Box

Puzzle Goal:

To manipulate the moveable pieces on the top of the puzzle box to open it.

Materials:

Quarter sawn Argentine Walnut, Palo Blanco, and cedar

Classification: 2.1 (and 6.4)



14

Double Locked Briefcase Puzzle

Puzzle Goal:

Secret Opening Briefcase

Materials:

Aluminum, wood, metal

Classification:

Secret Opening Box

Notes:

NO FORCE REQUIRED



15

Monad

Puzzle Goal:

Take apart and put back together

Materials:

Die cast metal, dip anodized

Classification:

Take apart



16

Eclipse

Puzzle Goal:

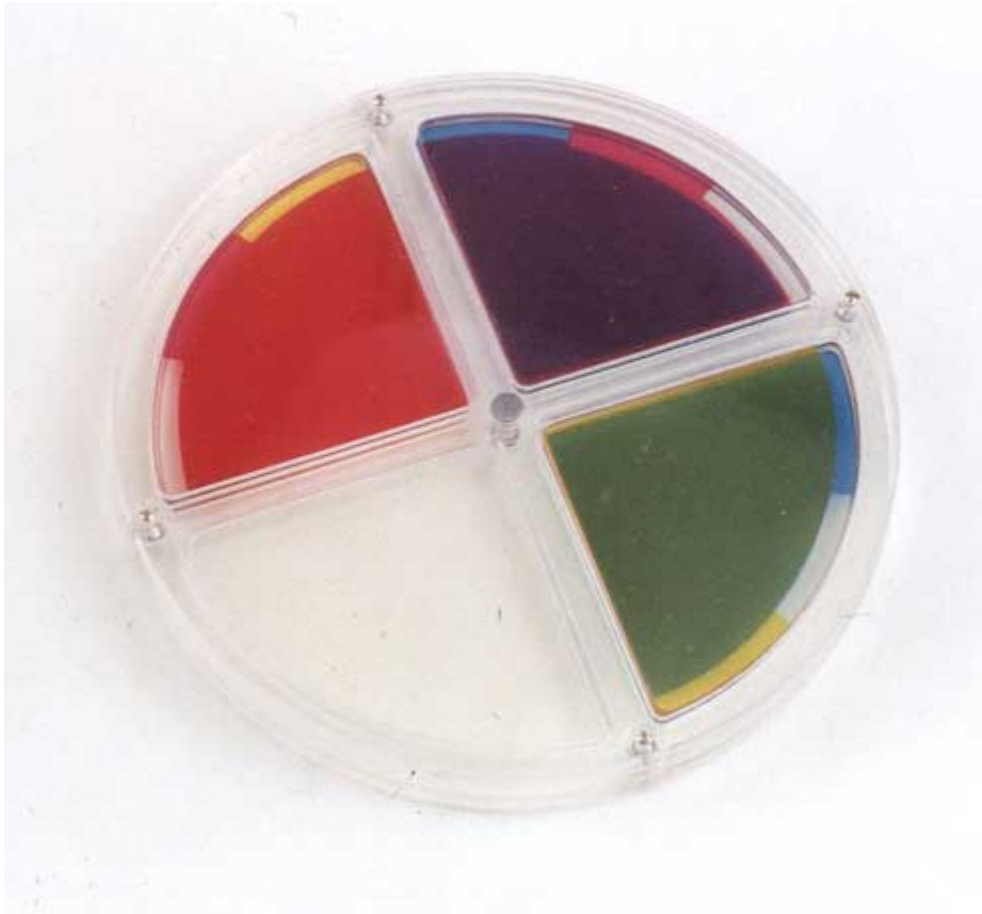
The elements must be moved on top of each other in the right order.

Materials:

acrylic sheet, foil, urethane casting resin, small bolts, metal balls.

Classification:

sequential movement



17

Egyptian Pyramid 2

Puzzle Goal:

Put the 7 pieces inside the tray, to make a pyramid.

Materials:

Wood: pallisander, maple, zebrawood

Classification: Put-Together



18

Enhanced Cube Bi-section

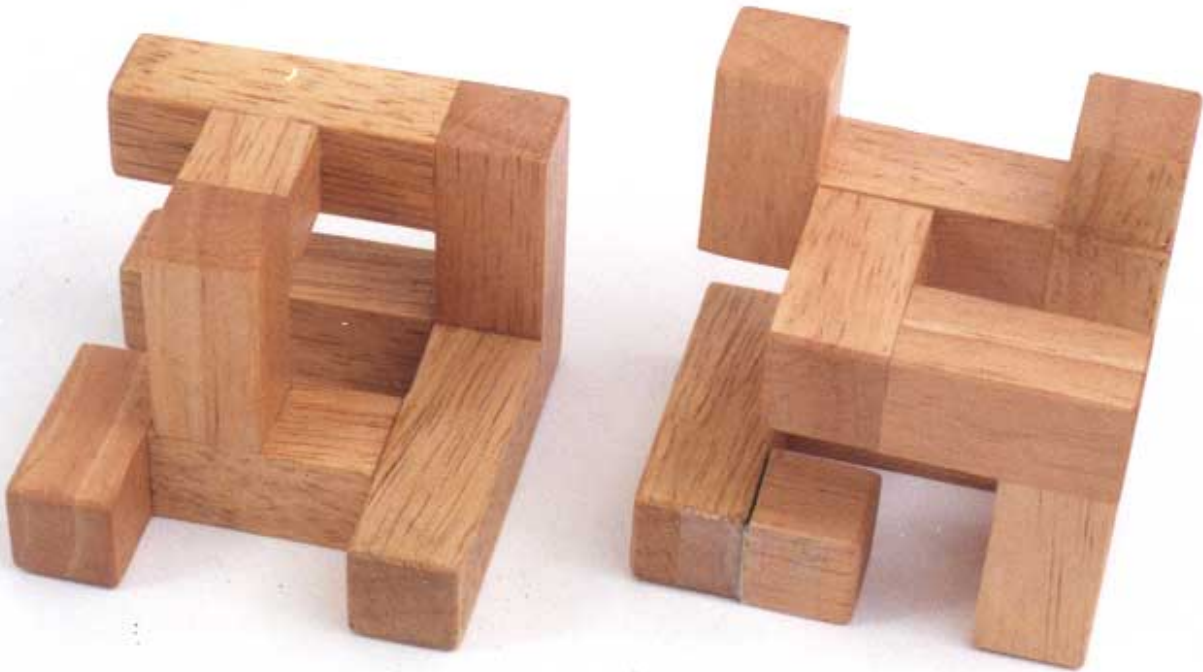
Puzzle Goal:

Form a fractalized cube.

Materials:

Hardwood+misc.

Classification: 3.2



19

Fourarms

Puzzle Goal:

To disassemble the puzzle into 5 pieces (4 are identical) and re-assemble.

Materials:

Pine, mahogany, ramin

Classification:

Interlocking Solid Geometric.(3.2)



20

Free Me 2

Puzzle Goal:

Remove coin

Materials:

African Mahogany, Kennedy half dollar, and things

Classification:

Take Apart



21

Fusiun Dals Quadrats

Puzzle Goal:

The 20 pieces in the box form 5 squares of equal size. Take them out of their box and rearrange them to form 1 bigger square (using all the pieces). Afterwards pack the pieces back in to the box.

Materials:

Birch

Classification: Put-together / jigsaw



22

Hinge Box

Puzzle Goal:

Open the box!

Materials:

Figured Teak, Curly Beech, Metal Hinges

Classification:

Opening (2.1)



Houses and Factories

Puzzle Goal:

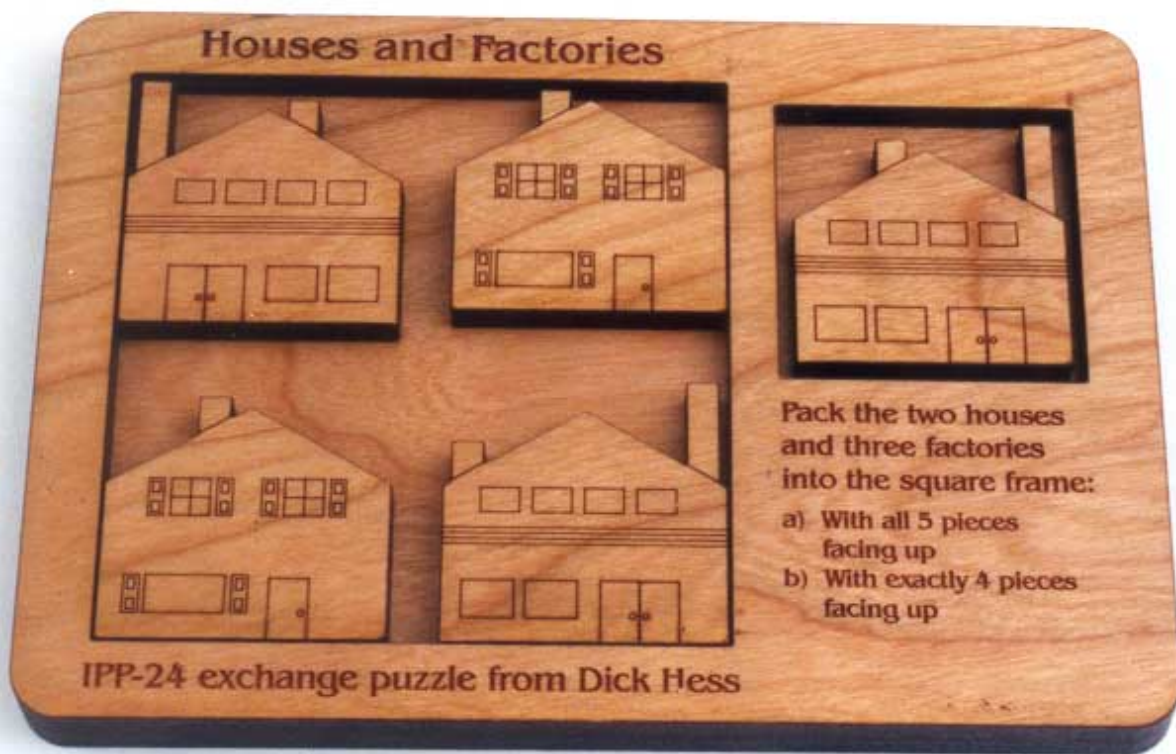
Pack two houses and three factories into the square frame with:

- (a) 5 pieces facing up
- (b) Exactly 4 pieces facing up.

Materials:

Cherry wood

Classification: 1.1 Put Together; ASS-STRA



Impossible Cube

Puzzle Goal:

This puzzle has 2 problems.

- 1) Can you take apart impossible CUBE into 3 pieces ?
- 2) Can you explain how impossible CUBE's green piece crafts ?

Materials:

Pine

Classification: Take apart puzzle (impossible object)



25

Insoma

Puzzle Goal:

The puzzle is to assemble both the Soma Cube and the 6 piece diagonal burr at the same time. One piece of the Soma Cube is attached to one of each of the pieces of the diagonal burr.

Materials:

Blackbean and Silver Ash

Classification:

3 Dimensional Put Together

Notes:

In this puzzle the Soma Cube has a unique solution.



Jumble Jungle Puzzle

Puzzle Goal:

Disassembly and reassembly

Materials:

cocobolo, Indonesian rosewood, bocote, zircote, macassar ebony, padauk, bloodwood, tulipwood, yellowheart, Peruvian walnut, and marblewood

Classification: Interlocking



28

Keepers Key Safe

Puzzle Goal:

The goal of this puzzle to retrieve the key from with in The Keepers Key Safe.

Materials:

White Argentine Mahogany hardwood

Classification: 2.1



29

Kuru Kuru Heart

Puzzle Goal:

"Kuru Kuru" means "round" or "revolve". As the name, it rounds and you can make a shape of heart. Through this motion, you can open the lid.

Materials:

keyaki, others

Classification:



30

LabyRing

Puzzle Goal:

Creating a double labyrinth ring so that the solution will make a difference.

Materials:

Silver and Brass

Classification:

Put-together



Less Balls

Puzzle Goal:

- 1) Pack 4 balls with the 5 wooden piece in the box
- 2) Pack 3 balls with the 5 wooden pieces in the box, in such a way that it is not possible to pack the 4th ball in the box.
- 3) Pack 2 balls with the 5 wooden pieces in the box, in such a way that it is not possible to pack an additional ball in the box.

Materials:

Wood, metal

Classification: Not to pack packing problem

Notes:

The less balls you have to pack, the more you have to crack.



Little Maz-N-Cube

Puzzle Goal:

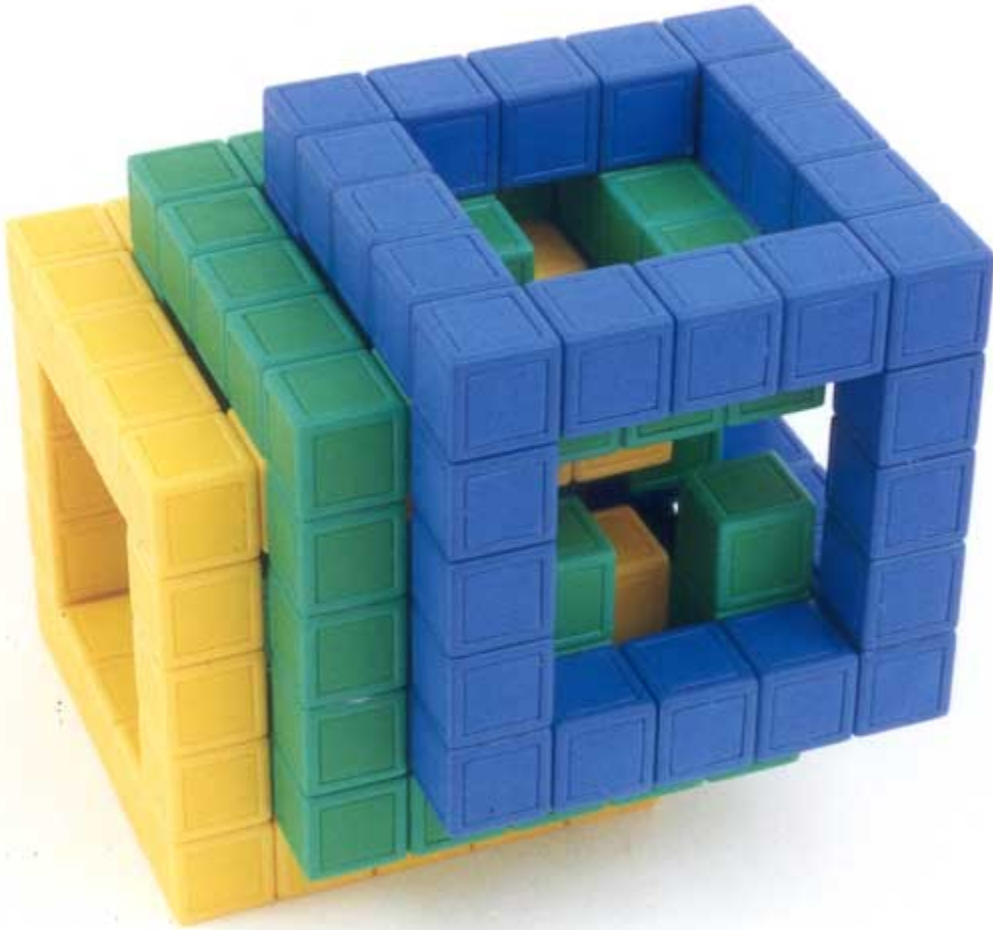
Separate the 3 cubes (without using excessive force).

Materials:

ABS & TPR plastic (Livecube)

Classification:

Interlocking / Sequential Movement



33

Lucky Clover

Puzzle Goal:

Take apart the four rings, and then put them back together again forming the lucky-clover shape as shown in the picture. An intermediate challenge is to form a set of hand-cuffs.

Materials:

Aluminum with "silver" and "gold" chrome plating

Classification: Put Together and Take Apart

Notes:

Please do not use force, do not bend or scratch the rings.



34

Monkey's Palanquin

Puzzle Goal:

This looks like a traditional secret box, but you will be surprised to find the unique movement.

Materials:

walnut, rosewood, katura

Classification:



Newkites & Bricks

Puzzle Goal:

Make a square out of the pieces.

- 1) **Make 7x7 square out of all 23 pieces of 5 figures.**
- 2) **Make 6x6 square out of the selected pieces using all 5 figures.**
- 3) **Make 5x5 square out of the selected pieces using all 5 figures.**

Materials:

Blockboard

Classification: put together



36

Puzzle Springs

Puzzle Goal:

To take apart two pieces

Materials:

Stainless steel and wood

Classification:

Take apart



Puzzle Squares Big Cube

Puzzle Goal:

Construct the big cube, with maximum symmetry. A secondary challenge is to create a ring of edge-hinged cubes.

Materials:

Polypropylene

Classification: 3D assemblies

Notes:

Two edges have a pair of ball parts and two edges have two pair of socket parts each. All are positioned to permit maximum rotatable hinging for 1, 2, or 3 additional squares along any edge of a first square. Hinges are centered on their respective edges and at right angles to their identical types.



37

QRIN X

Puzzle Goal:

- 1) Wrap the chain around the burr to make a complete cube
- 2) Pack the chain into the tray

Materials:

Wood, metal and plastic

Classification: Put-together



quadri

Puzzle Goal:

You'll find 9 different symmetrical shapes shown on the annexed sheet. Your challenge is now to combine those figures simultaneously on both sides. The colors are never the same on both sides of a square piece. There are 17 possible couples of figures to master. The three first shapes can be duplicate on both sides in the same time. One of the figure can only be combined once with a single other one. Can you find which one ? Not to give to color-blind persons !

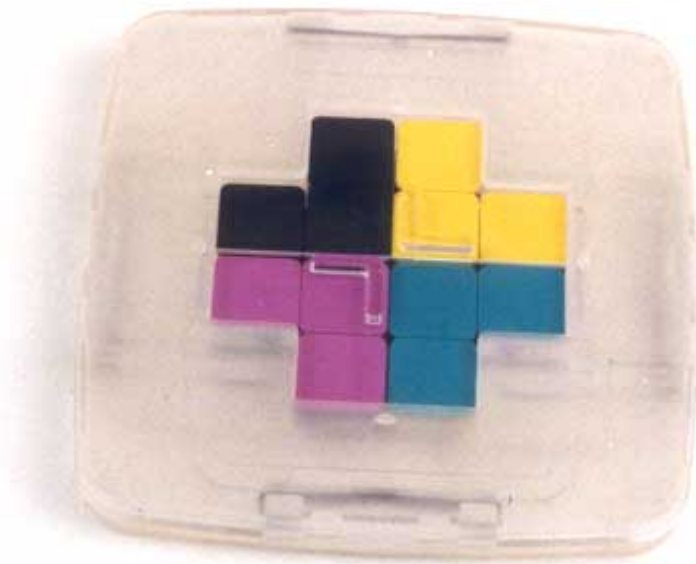
Materials:

transparent ABS, POM, steel

Classification: sequential movement

Notes:

How to move: Hold the game with the blank space for logo towards you, thumbs on top, index fingers underneath. Use the thumbs to move vertically, use the index fingers to move horizontally.



Quilted Puzzle Series #1

Puzzle Goal:

For all the quilt puzzles – assemble the pieces into the tray forming a quilt pattern

Materials:

Red Alder Wood for the puzzles, Birch Plywood and brass fittings (for the box)

Classification: ASS-STRA, 2D



40

Quzzle

Puzzle Goal:

Move large tile from upper left corner to upper right corner by sliding tiles

Materials:

Plastic

Classification:

Sliding Block Puzzle



41

Red spots

Puzzle Goal:

Pile up four cubes and let them stand by themselves so as to hide all the blue spots and show all the red ones. The mirror will help you check the bottoms of the cubes. (Blue spots lying directly on the mirror are considered hidden.)

Materials:

wood, aluminum, mirror

Classification: Tsumiki



42

RHOMBO-LÉON

Puzzle Goal:

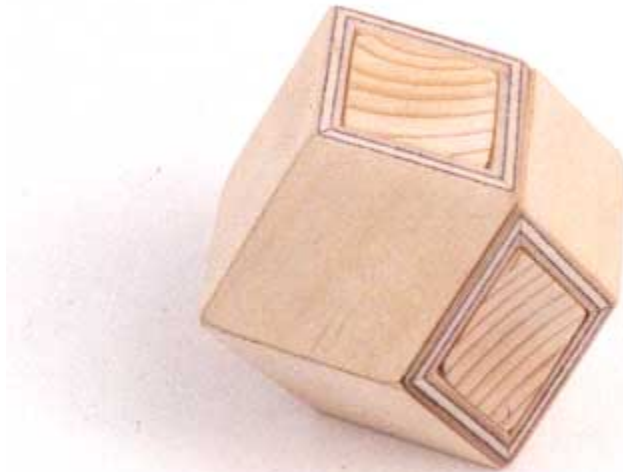
Put-together / Take-apart

Materials:

Wood

Classification:

Coordinate motion puzzle



43

Rightangular Jam

Puzzle Goal:

Beginning: Put the four triangular pieces in the starting position.

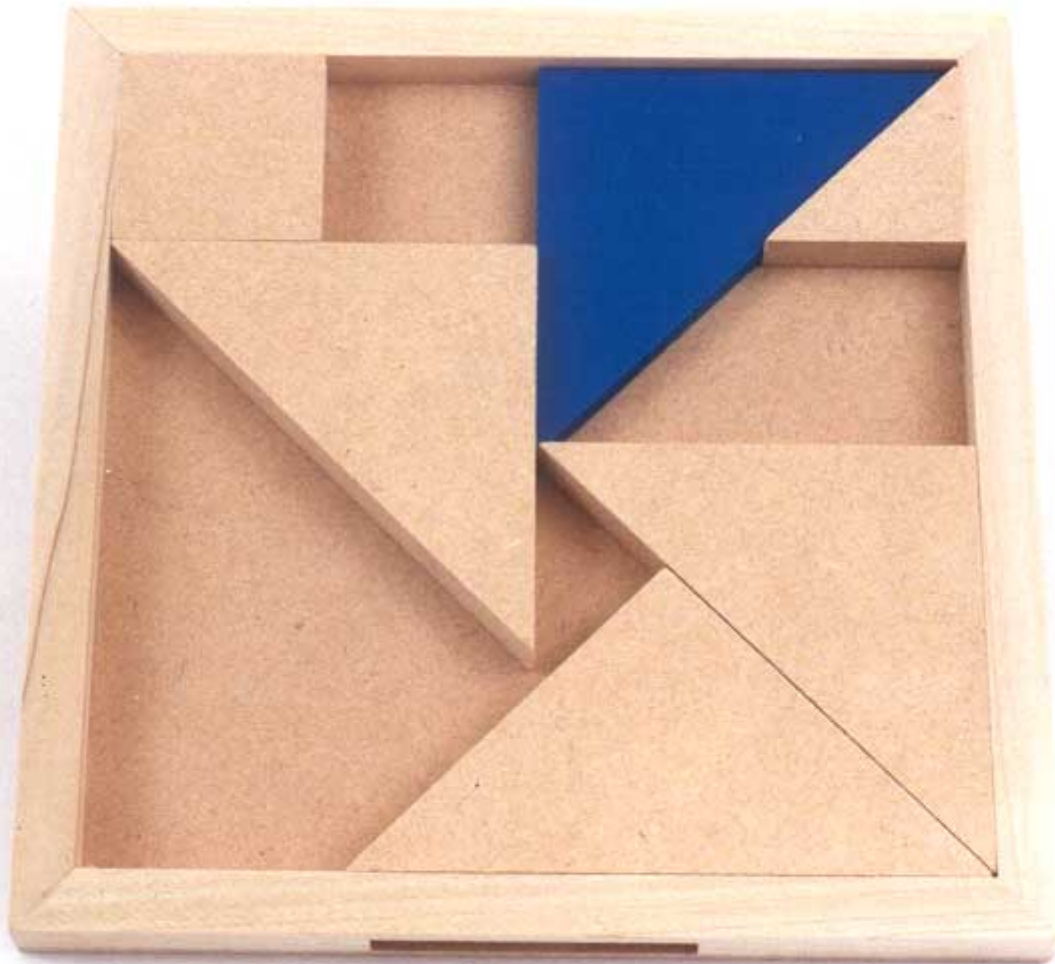
During the game: Slide pieces without picking them up.

End: Slip the blue triangle through the hole in the front of the frame. (Only the blue one can go through.)

Materials:

MDF and wood

Classification: Sequential Movement (Sliding Piece Puzzle).



Scrap Star

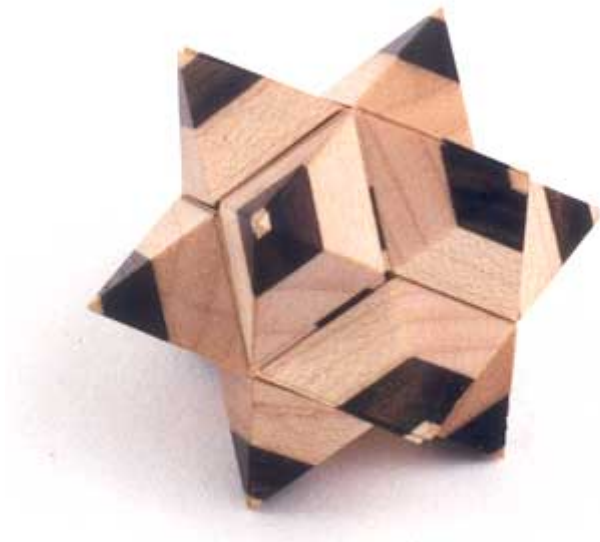
Puzzle Goal:

The goal of this puzzle is to disassemble and reassemble the 12 identical pieces. Although there are several ways to assemble (and even more ways to disassemble) these pieces, the final result will always have the shape of the first stellation of a rhombic dodecahedron.

Materials:

Macassar Ebony and Eastern Hard Maple.

Classification: interlocking assembly / disassembly puzzle



45

Sixes

Puzzle Goal:

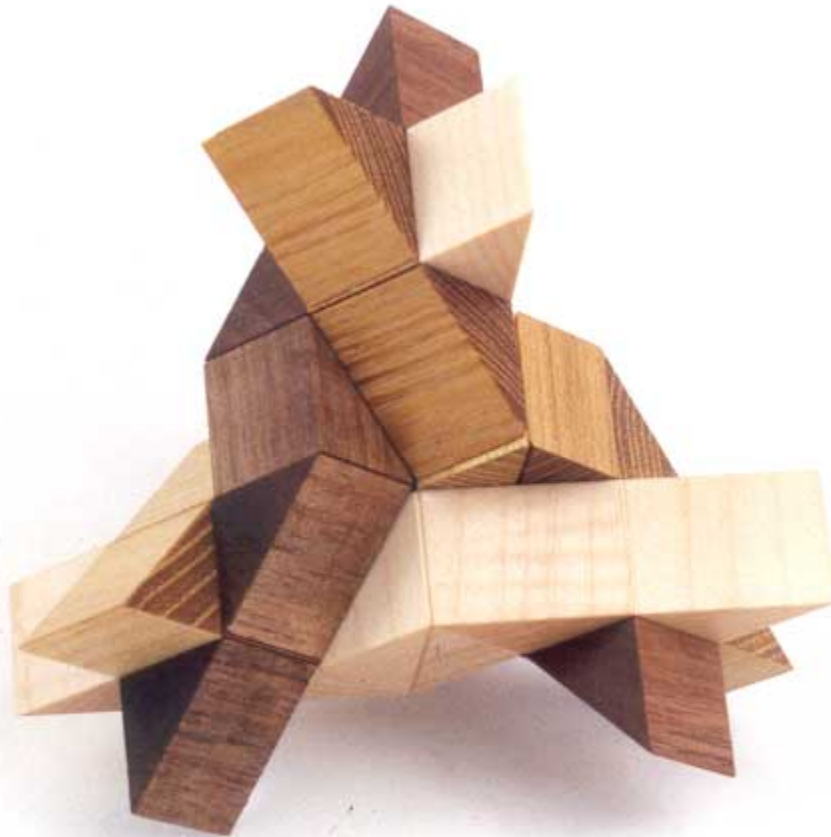
Take apart and put together. Individual shaped

Materials:

Walnut, maple, acacia

Classification:

Take Apart Puzzle and Put Together



46

Space Rings

Puzzle Goal:

Put the both rings into the frame.

Materials:

Goncalo Alves for the frame, Afromosa and Sapele for the two rings

Classification: Put Together



47

StarCluster

Puzzle Goal:

Fit the three pieces flat into the tray (no force required!)

Materials:

Red Alder Wood

Classification:

ASS-STRA, 2D



48

Stickman No. 2 Puzzlebox

Puzzle Goal:

The goal of this puzzlebox is to reach all 4 hidden compartments with a minimum of 55 individual moves.

Materials:

Oak (exterior), Maple (interior & inlays), Wood Glue, Stain, Lacquer

Classification:

Sequential Movement



49

Stickman No. 3 Puzzlebox

Puzzle Goal:

The goal of this puzzlebox is to find all 3 hidden compartments with a minimum of 106 individual moves.

Materials:

Oak (mechanical components), Maple, Oak or Cypress (main box – depending on style), Wood Glue, Stain, Lacquer, Brass Screws

Classification: Sequential Movement



50

Stickman No. 4 Puzzlebox

Puzzle Goal:

The goal of this box is to open its two hidden compartments using the least amount of moves possible.

Materials:

Maple (main box & drawers), Cocobolo (tiles), Bloodwood (end frames & clutch), Wood Glue, Lacquer, Magnets, Bullet Catches.

Classification: Sequential Movement



51

Sway Cube

Puzzle Goal:

How can you take the cube apart?

Materials:

Walnut and Magnolia

Classification:

Take-Apart Puzzle



swissmad

Puzzle Goal:

On a swismad, you'll find 8 different symmetrical shapes shown on each corner. Your challenge is now to combine those 8 figures simultaneously on both sides. Of course, the colors aren't always the same on each face. With only 8 diagrams, you can already go through 28 possible couples of figures, over more than a million combination. Beware: It can drive you mad !

Materials:

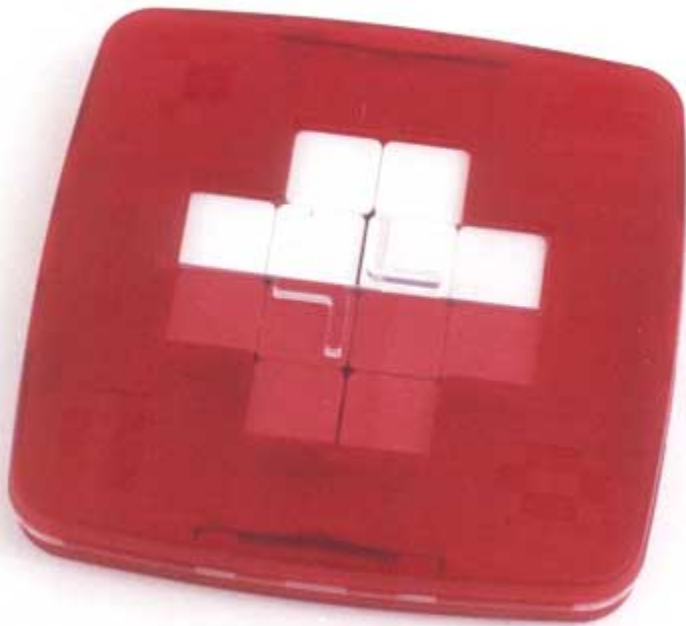
transparent ABS, POM, steel

Classification:

sequential movement

Notes:

How to move: Hold the game with the blank space for logo towards you, thumbs on top, index fingers underneath. Use the thumbs to move vertically, use the index fingers to move horizontally.



53

TanaCube

Puzzle Goal:

To assemble 12 pieces to form a cube having an identical tangram arrangement on each of its faces

Materials:

Wood and glue

Classification:

Interlocking



Tanacube Too

Puzzle Goal:

take apart - put together

Materials:

Acrylonitrile Butadiene Styrene (ABS plastic)

Classification:

3.2 Interlocking Solid Puzzle



55

Tangled Gym Jewel Box

Puzzle Goal:

First, try to remove the chain from the frame. Then, try to return it to the starting position.

Materials:

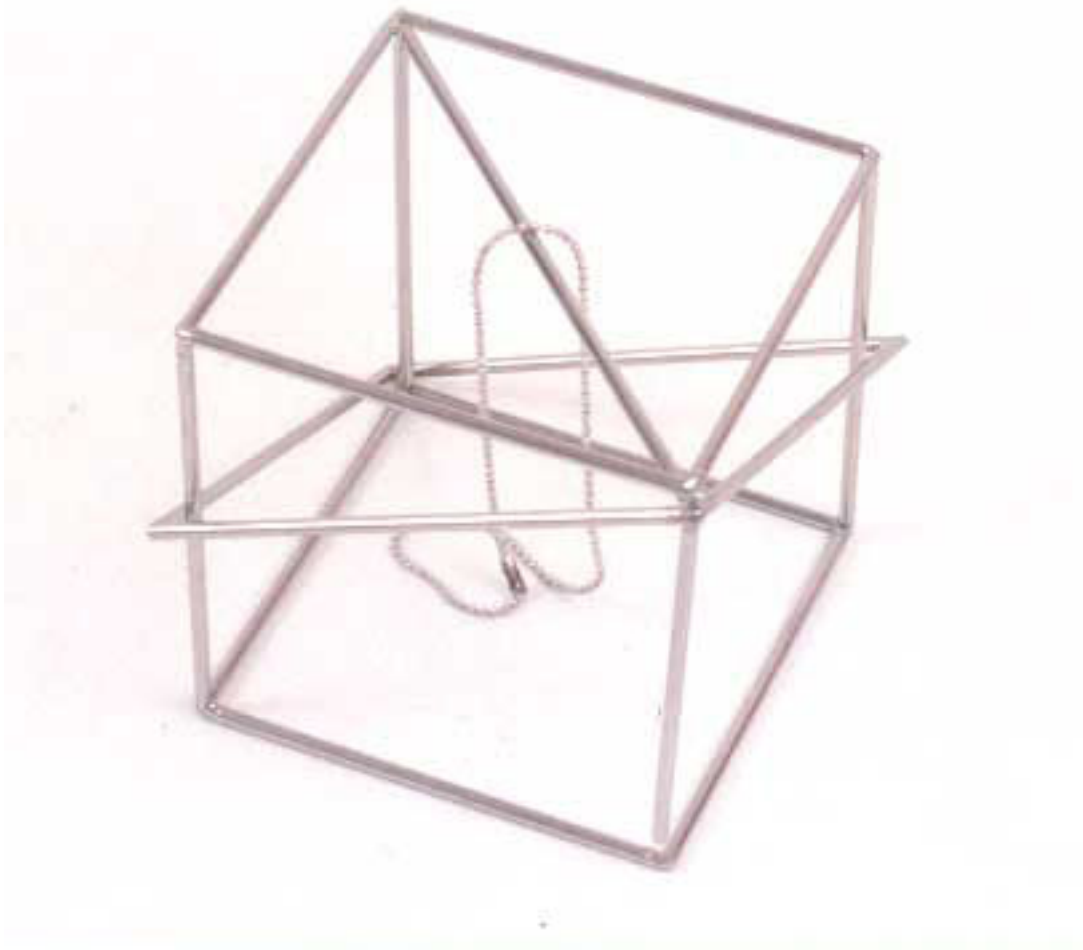
Stainless wire and chain

Classification:

Disentanglement

Notes:

This puzzle is very delicate. It only needs a little strength. Too much, and you will change it.



56

toe-KEY-yo

Puzzle Goal:

Get the ring off of the KEY

Materials:

360 Brass machined

Classification:

Sequential Movement



Triangular Jam

Puzzle Goal:

Beginning: Put the four triangular pieces in the starting position.

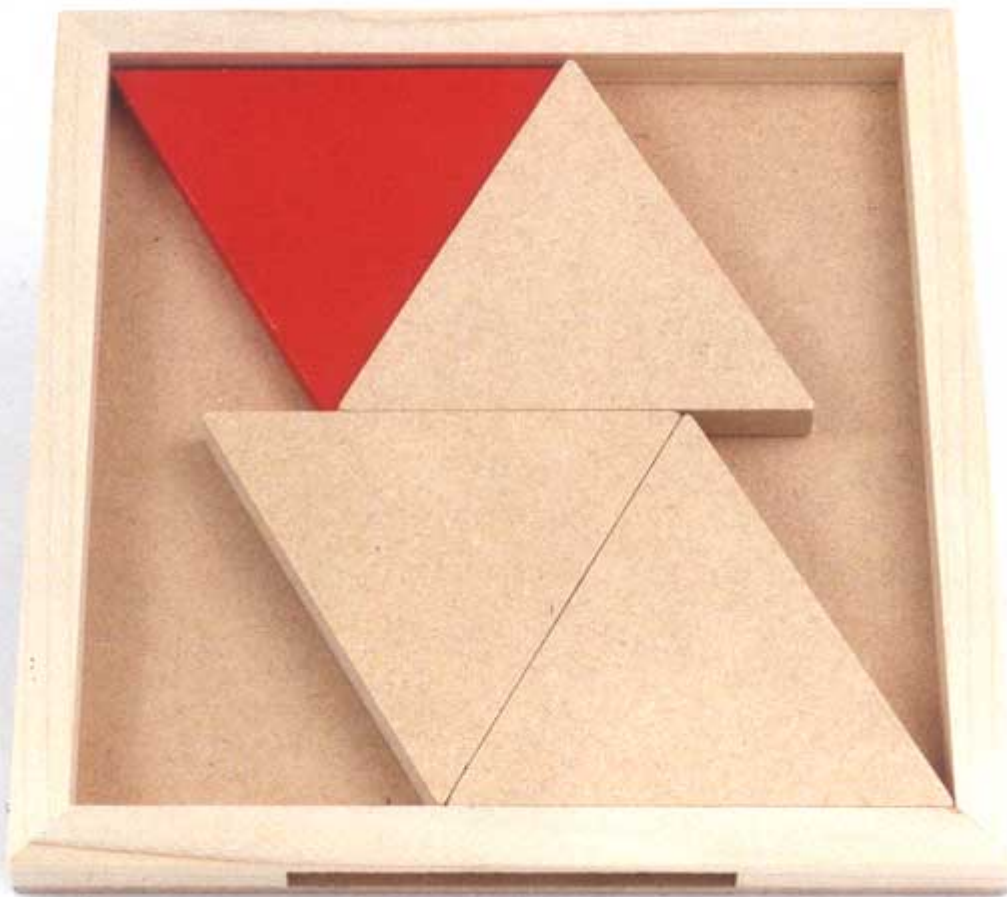
During the game: Slide pieces without picking them up.

End: Slip the red triangle through the hole in the front of the frame. (Only the red one can go through.)

Materials:

MDF and wood

Classification: Sequential Movement (Sliding Piece Puzzle).



Tricullis

Puzzle Goal:

The goal of the puzzle is to take it apart and to re-assemble it. The puzzle has four pieces, two of which fit together to make an assembly that is identical to the remaining two pieces.

Materials:

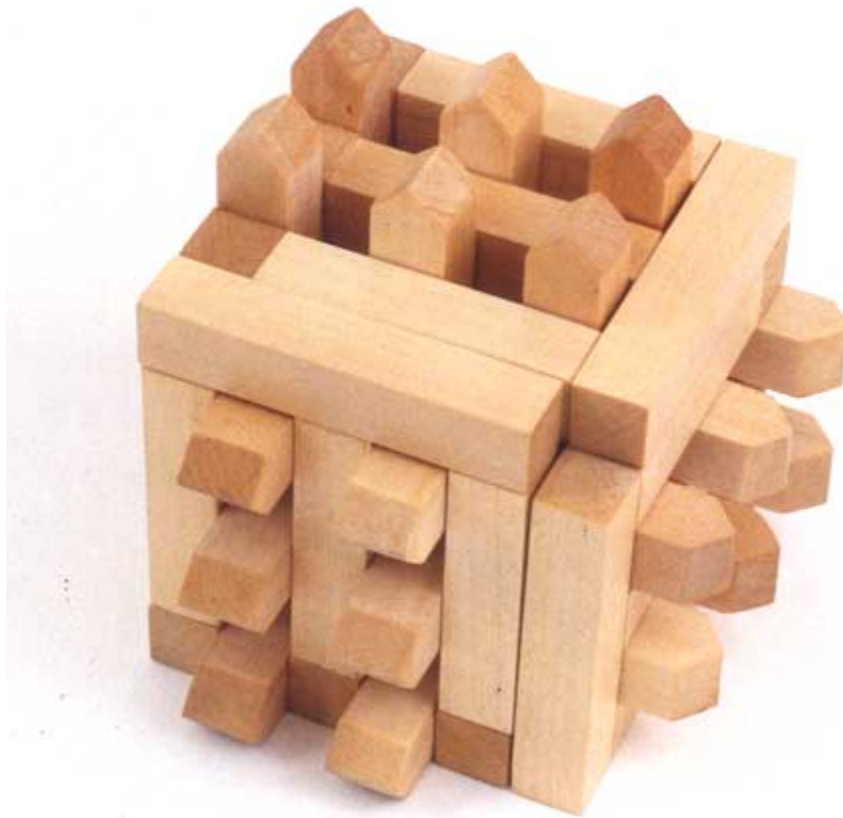
basswood

Classification:

Take apart - Put together

Notes:

No forcing, twisting or bending of the pieces or joints is required to solve the puzzle. Please take care with the delicate glue joints.



59

Twisted's Sister

Puzzle Goal:

Gold plated 150mm (6 inch) nails

Materials:

Gold plated 150mm (6 inch) nails

Classification:

Disentanglement

Notes:

The concept was found by accident during the manufacture of a remake of The Glass Nails. I have known about the puzzle for a number of years but only in the last year have I worked on a design that does not come apart/go together the same as the original puzzle.

