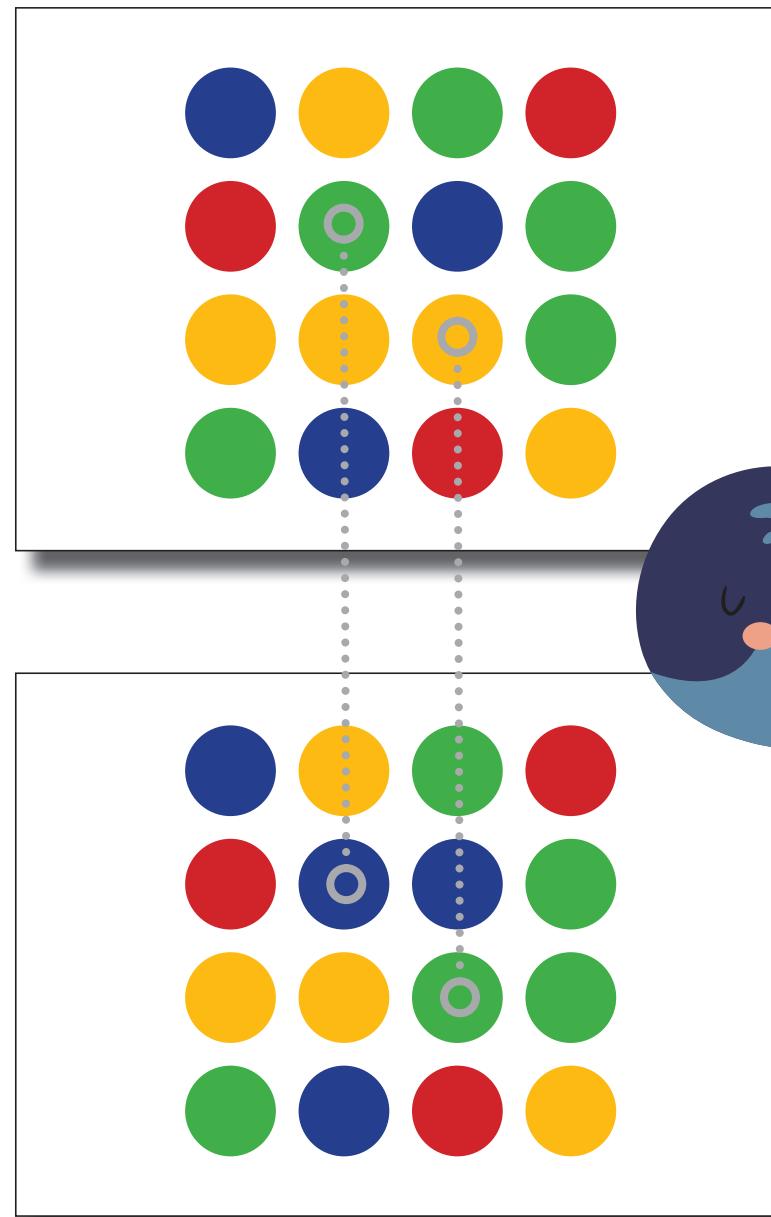




P-7-4

PATTERNS - SHAPES IN A GRID

4X4 GRID - DIFFERENCES



dr. Kristijan Musek Lešnik, dr. Petra Lešnik Musek

VISUAL-MOTOR INTEGRATION AND FINE-MOTOR SKILLS DEVELOPMENT RESOURCES

PATTERNS - DOTS IN A GRID

4X4 GRID - COMPLETING

dr. Kristijan Musek Lešnik

dr. Petra Lešnik Musek



PATTERNS - DOTS IN A GRID

4X4 GRID - COMPLETING

dr. Kristijan Musek Lešnik
dr. Petra Lešnik Musek

Title of the workbook: PATTERNS - DOTS IN A GRID: 4X4 GRID - COMPLETING
Brainscribed program - supporting visual-motor integration and fine-motor skills development.

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Brainscribed program members/subscribers can print and use the worksheets
in this workbook for their work with children during their membership/subscription.

Illustrations: los_ojos_pardos, Shutterstock
First edition, 2025
Number of pages: 256



Brainscribed resources help children develop and strengthen
visual-motor integration and fine-motor skills!

Published by:

IPSOS dr. Kristijan Musek Lešnik s.p.
Požarnice 26d, 1351 Brezovica pri Ljubljani

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Tasks in this workbook

Each combination includes a pair of identical patterns. In each pair, one pattern is incomplete. The objective of each task is to create two identical patterns.

The children compare the two patterns to identify which dots belong to the spots where the dots are missing.

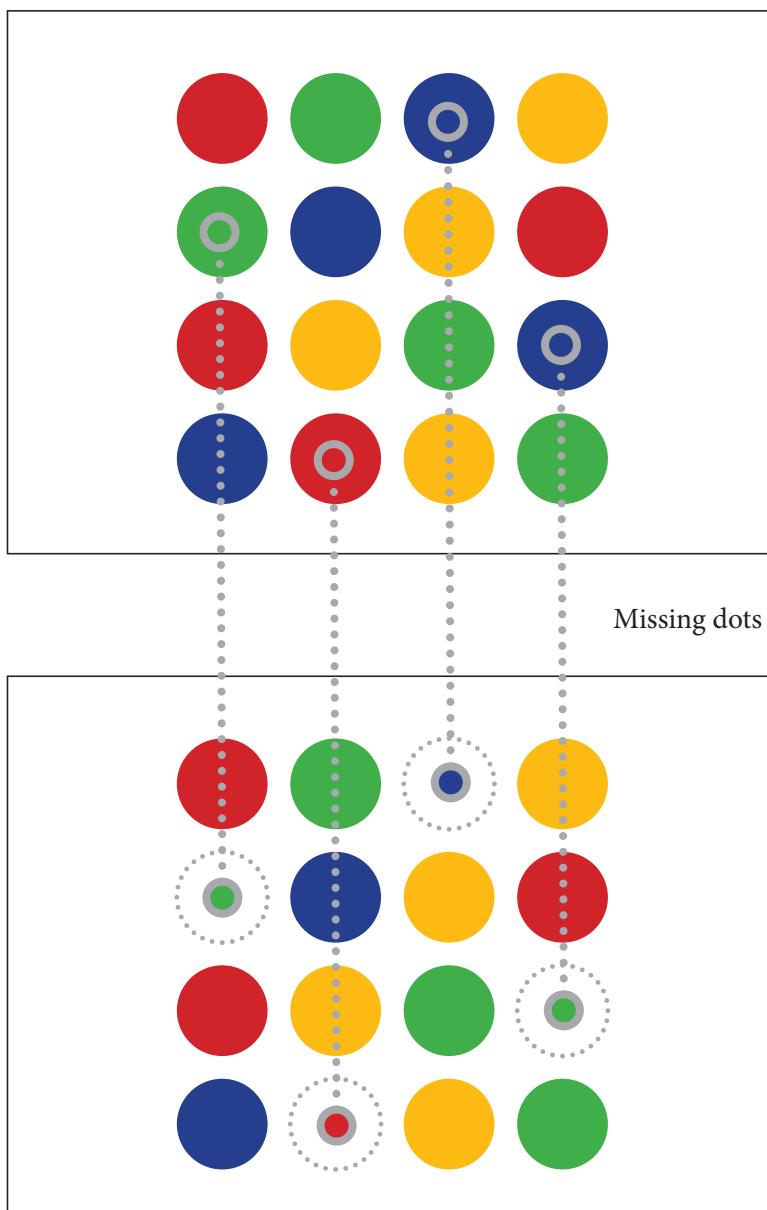
Each pattern consists of sixteen dots coloured in four colours: blue, red, yellow and green.

The number of missing dots in the patterns grows from the beginning to the end of the volume - gradually increasing the difficulty of the challenges.

Instructions:

Compare the two patterns and fill in the missing dots to make two identical patterns.

Example:



About completing patterns

Why pattern matching and completing activities are important

Tasks in which children fill in missing elements in patterns stimulate their cognitive development.

Tasks that involve comparing patterns and identifying their missing elements stimulate observational skills development. When children compare two sets of patterns and identify the missing elements in one of them, their attention is strengthened and their ability to concentrate, compare and identify similarities and differences is reinforced.

The activities in this collection encourage children to observe and compare the patterns carefully, which can contribute to improving their ability to focus on details. As they compare patterns, their visual discrimination skills are improved; these later play a key role in important developmental challenges such as learning to read, write and other skills. Pattern matching also encourages the development of mental flexibility, adaptability and critical thinking and problem-solving skills, as children need to analyse and evaluate each template in order to create identical patterns. As these tasks require the child to recall the details of one template and compare them with another, they also help to strengthen visual and short-term memory.

Another important aspect of tasks that require comparing and completing patterns is stimulating patience and perseverance, which are essential life skills both for solving these types of tasks and for achieving goals in various other challenges that children will face later on.

Activity aids - circles

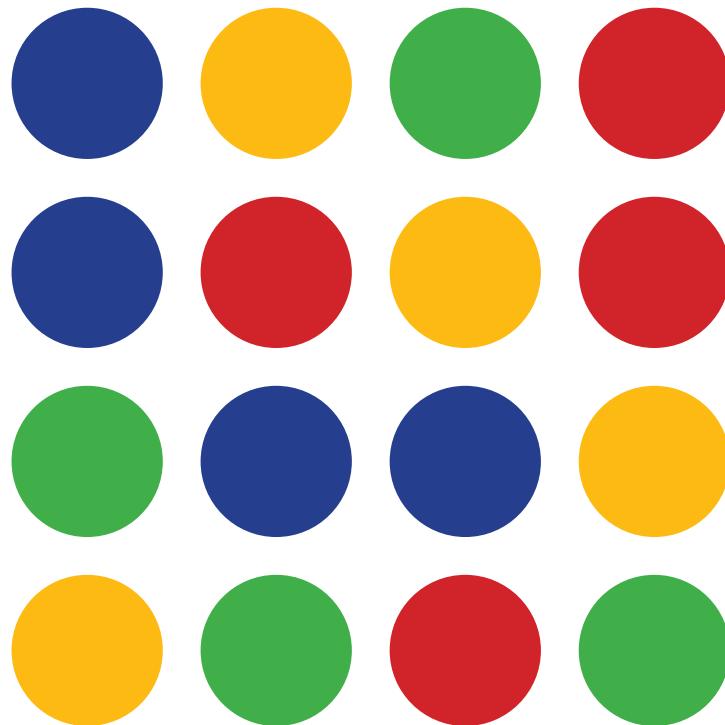
There are several possible ways to do the tasks in this workbook:

- version 1 - children compare two patterns on the template, one of which is incomplete; they place the corresponding dots/circles in the empty spaces to create two identical patterns,
- version 2 - children pick the corresponding coloured dots/circles from the pile and arrange them on a flat surface according to the patterns on the template; they then compare the two patterns and insert the missing dots into the incomplete one to create two identical patterns.

On pages 6 to 13 you will find printed coloured dots that you can use for the activities in this workbook. Depending on the level of fine motor skills of the individual child (younger children can handle larger objects more easily, while smaller dots are more suitable for children who have already developed better fine motor control of their fingers) and the available room, you can print smaller (20mm or 40mm diameter), medium (70mm diameter) or larger dots (120mm diameter).

Print and then laminate as many copies of the sheets with coloured dots as you like, then cut out and save the dots for the children to use in the activities in this book.

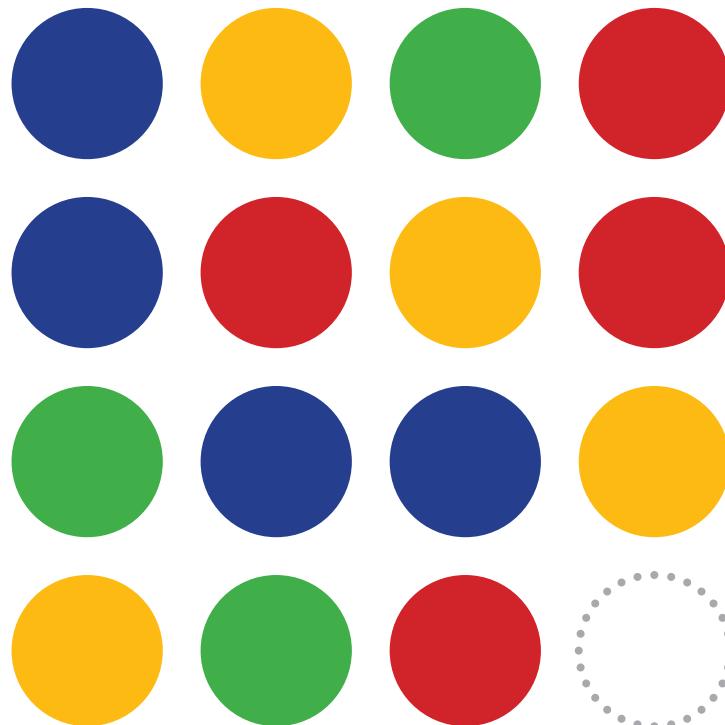
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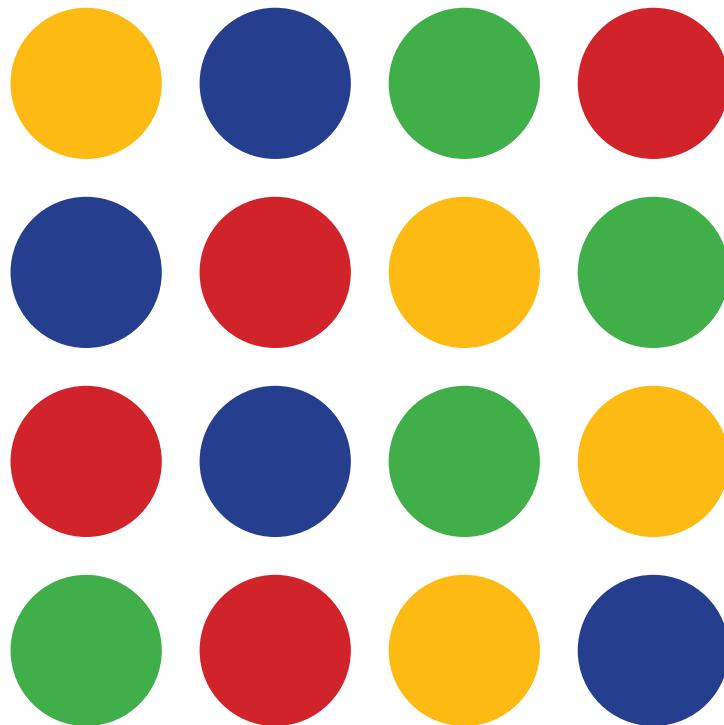
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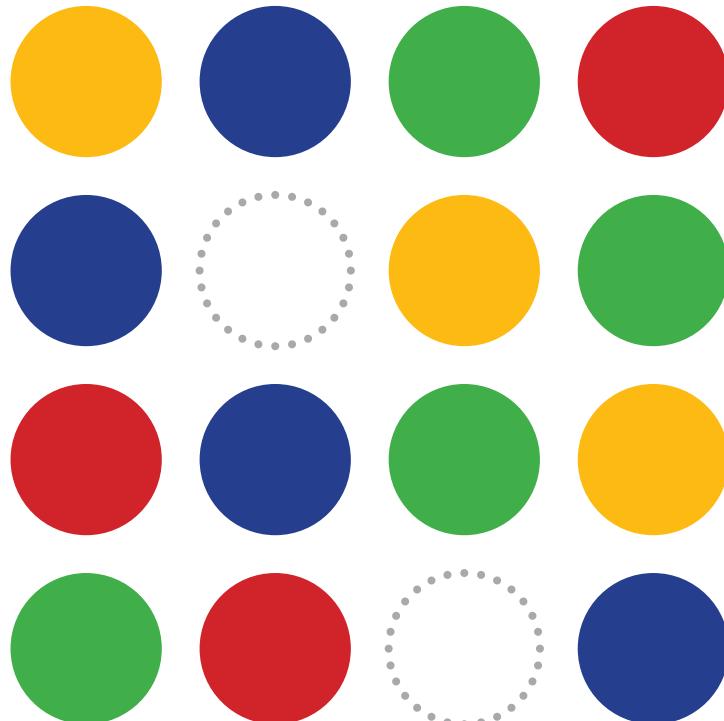
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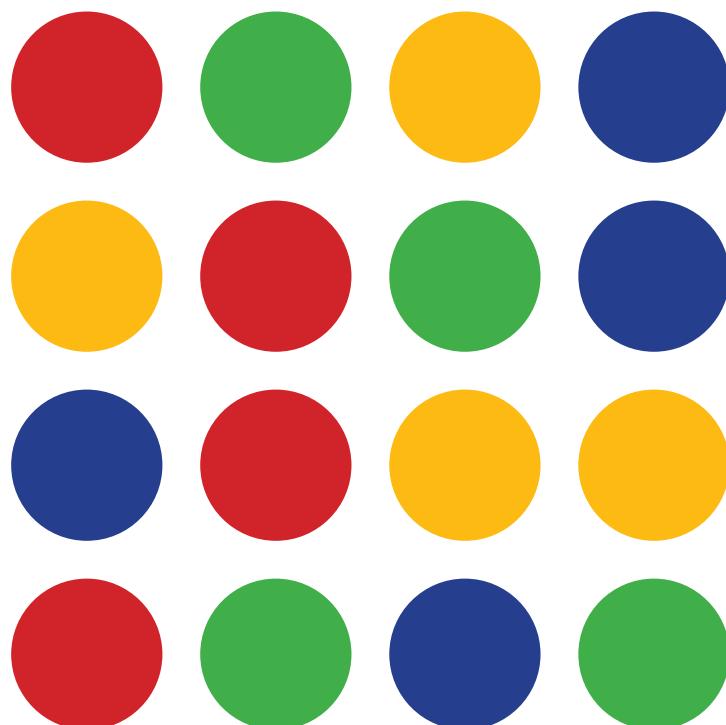


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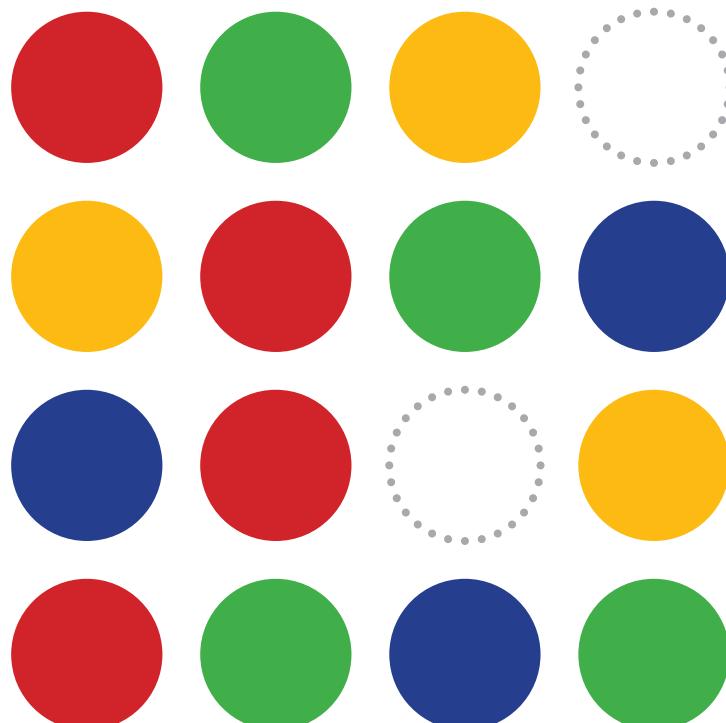
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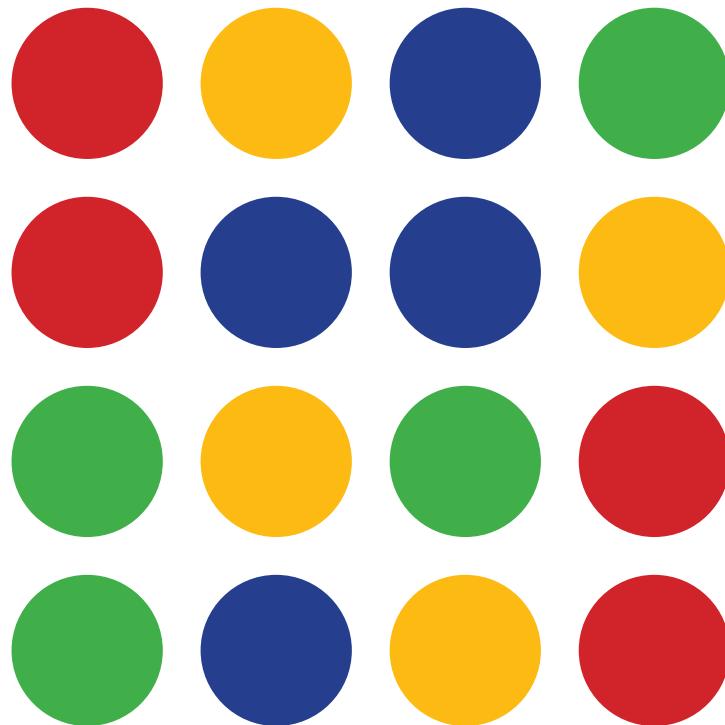
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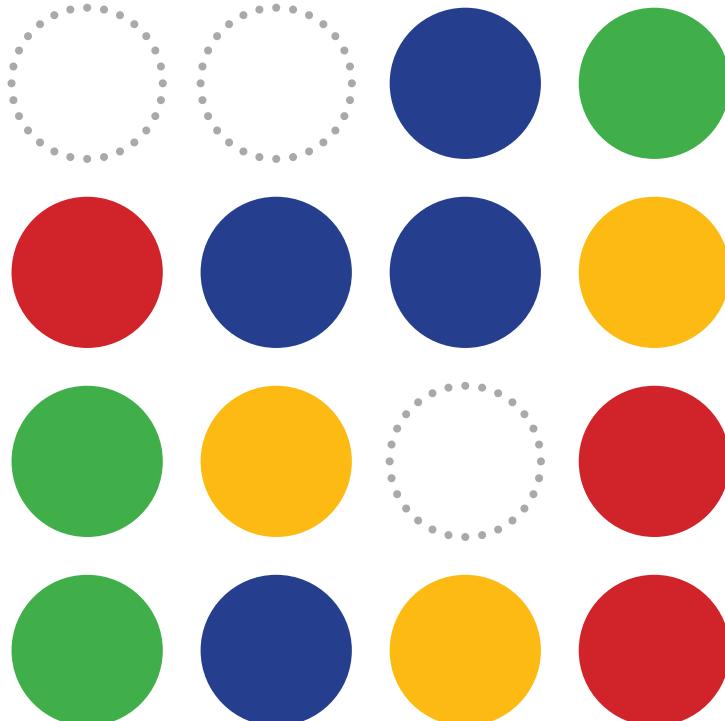
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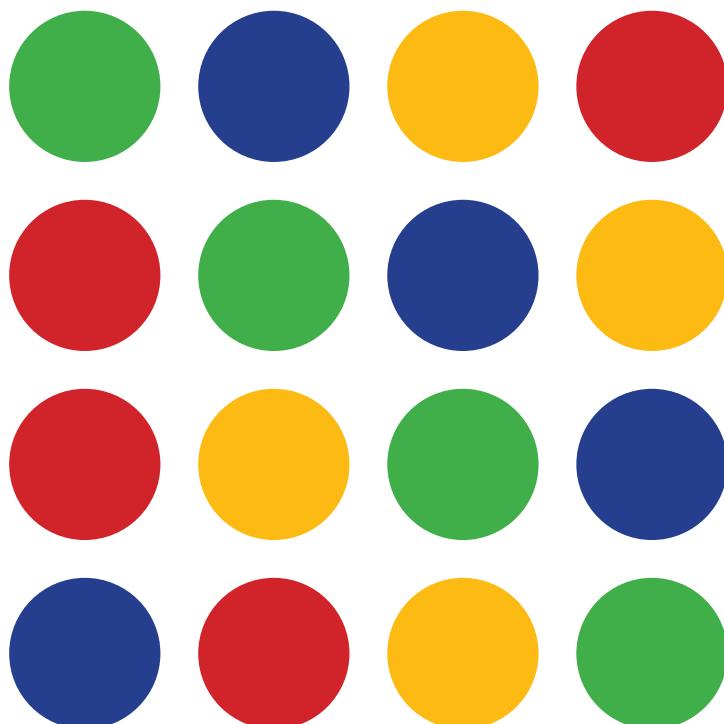


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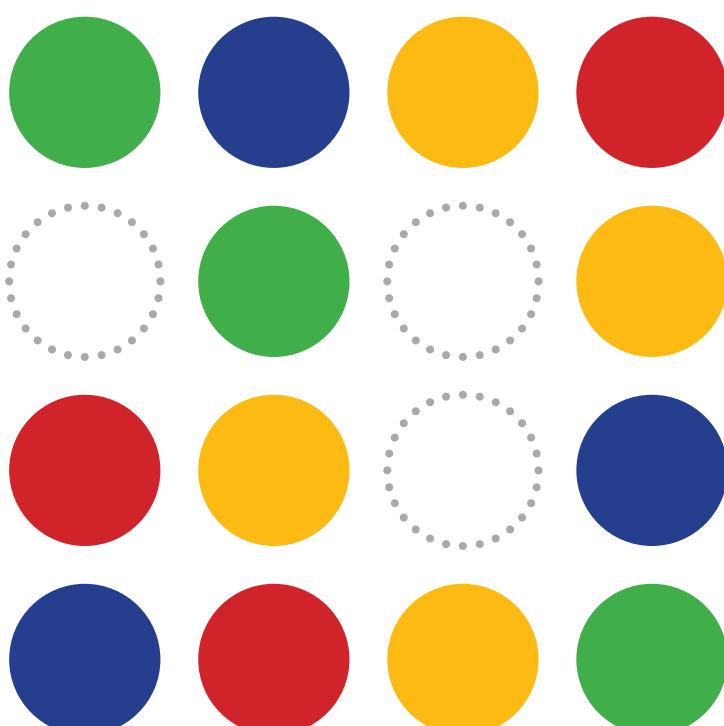
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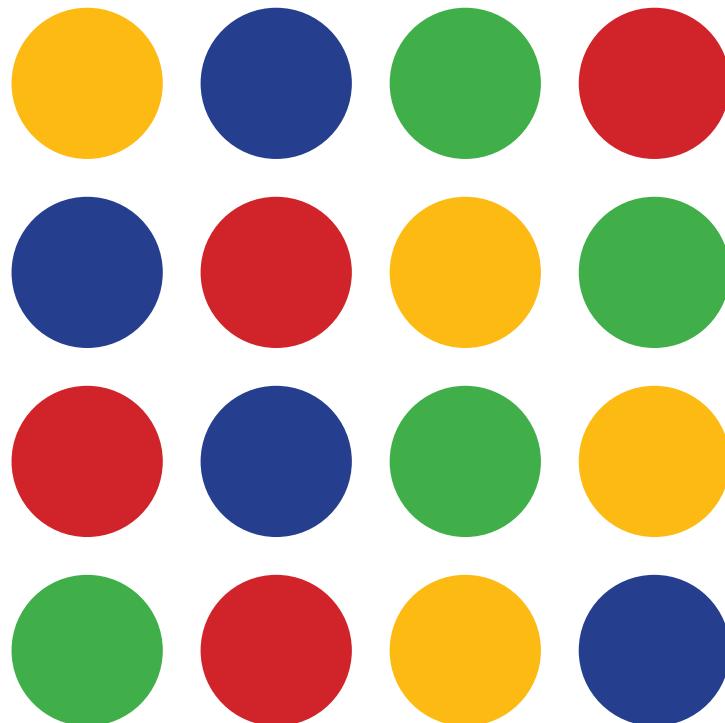


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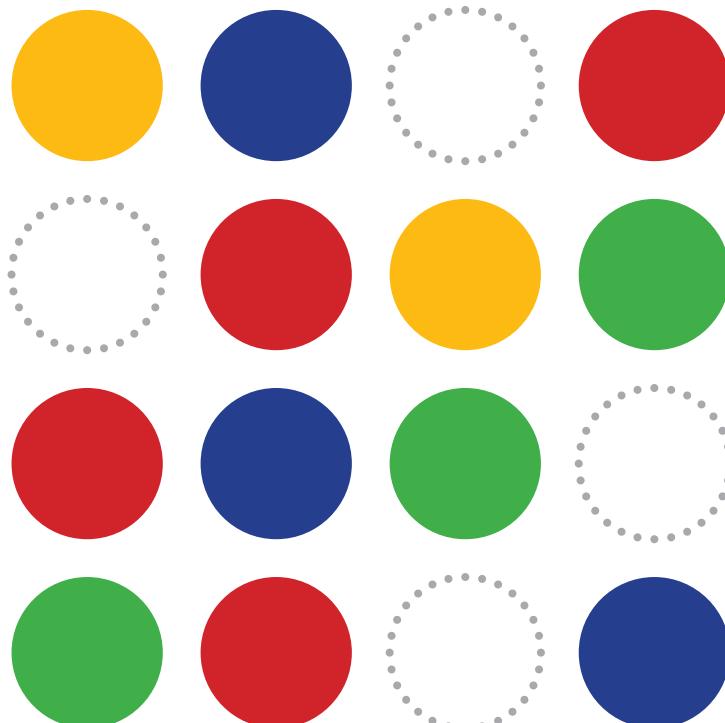
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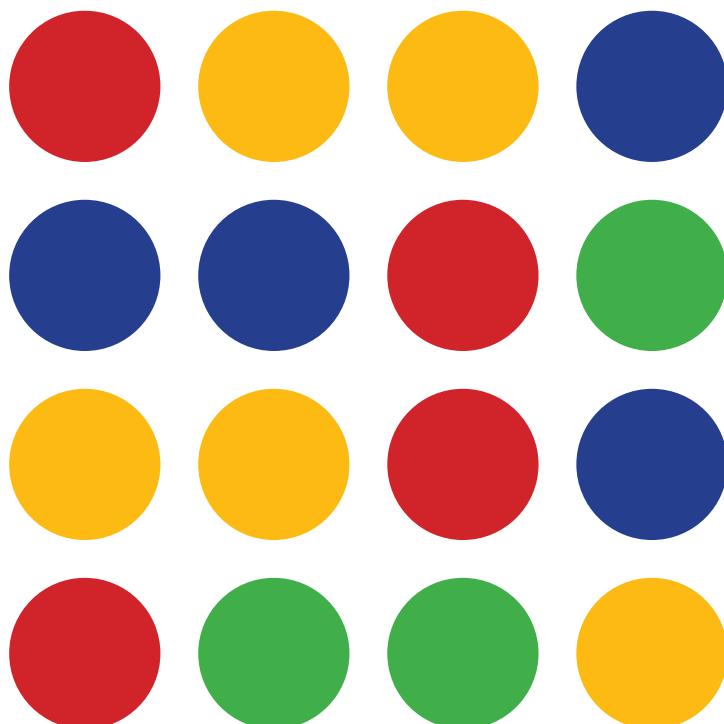
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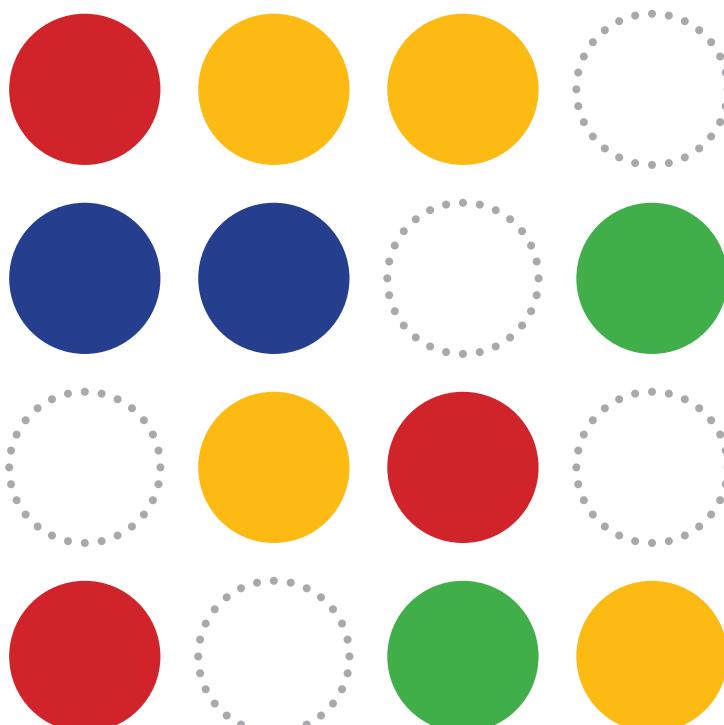
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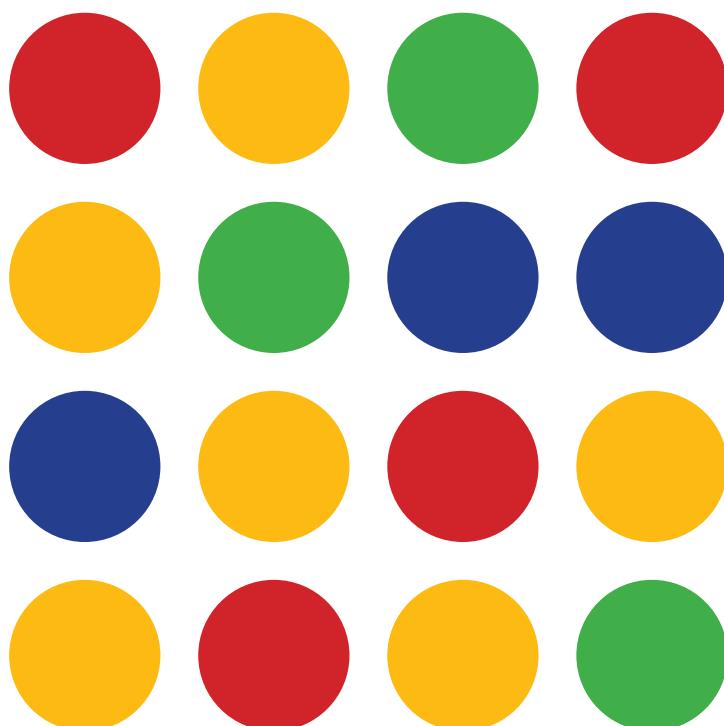


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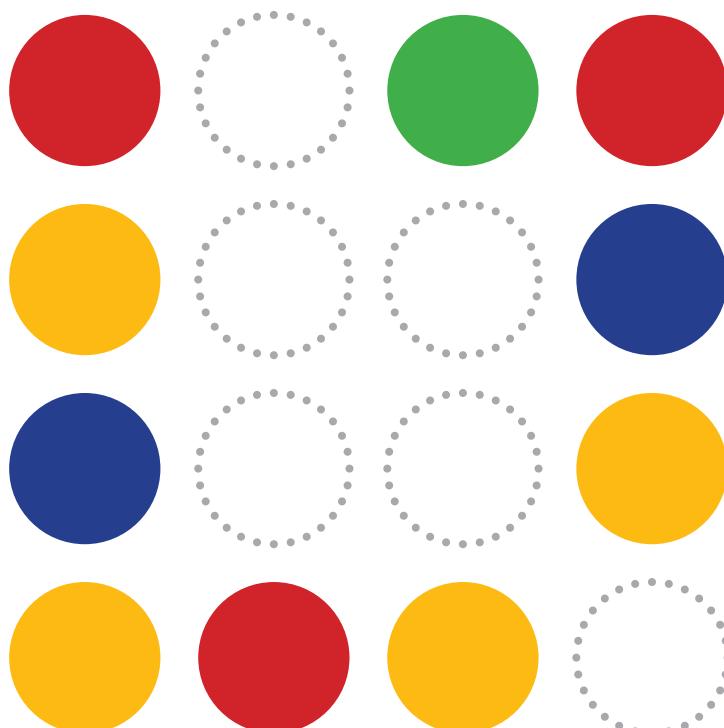
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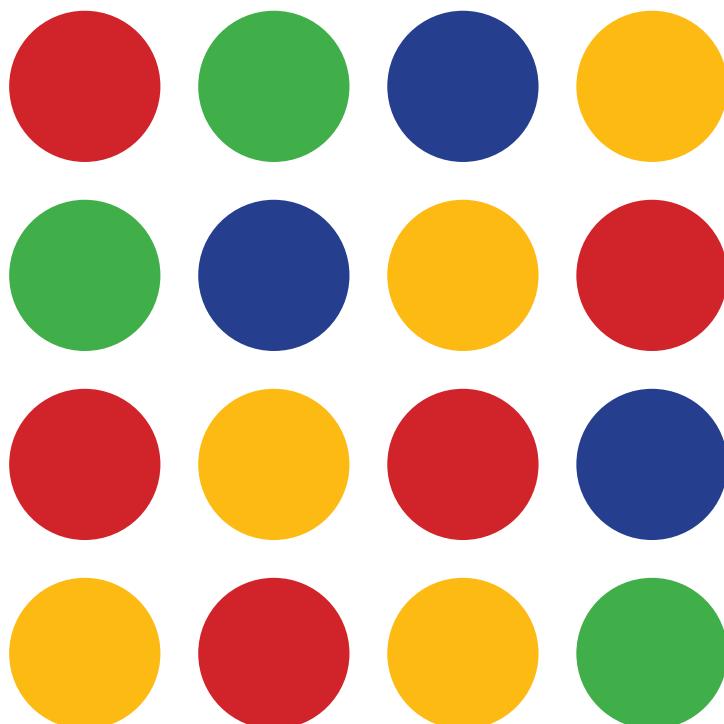


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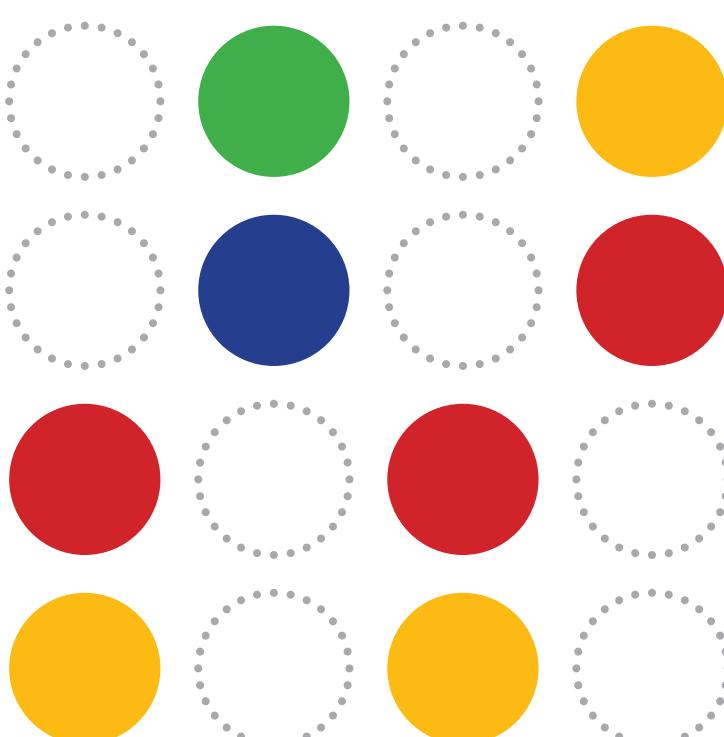
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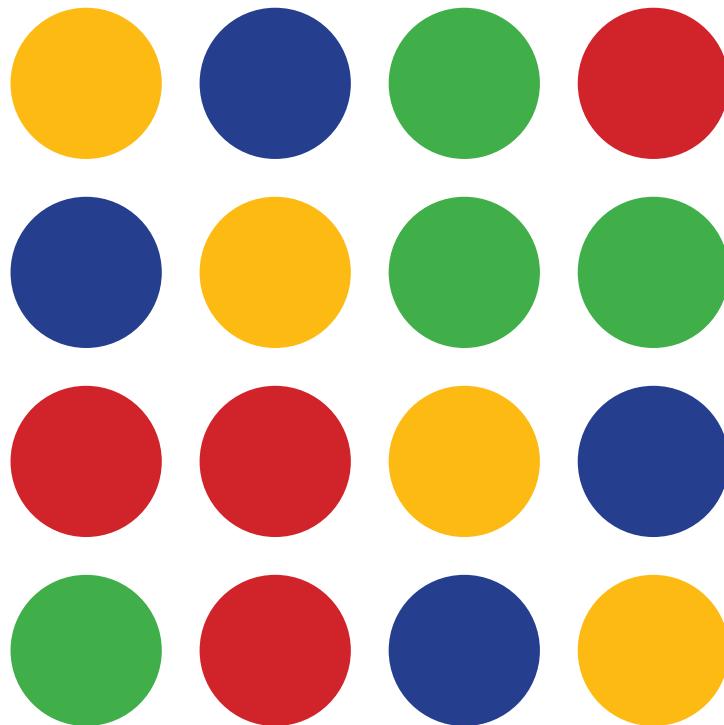
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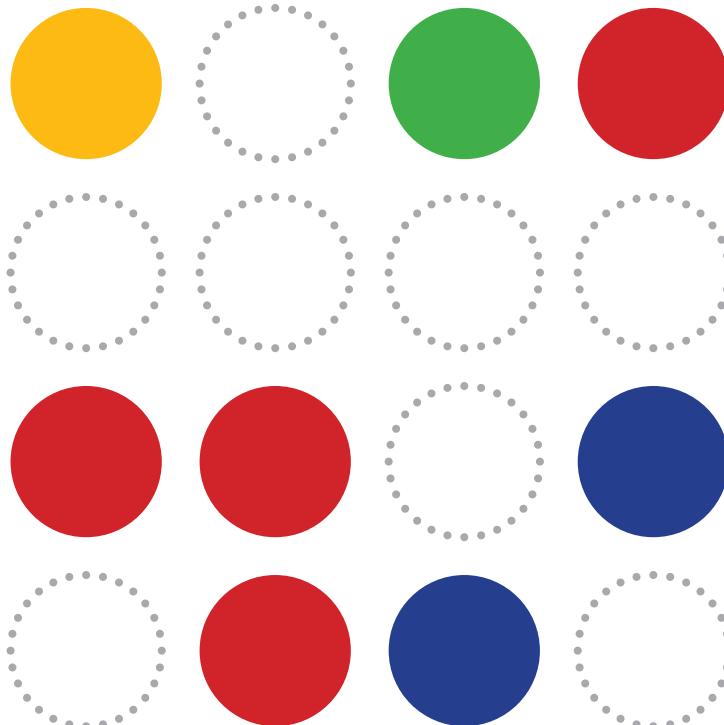
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About Brainscribed program

EXTENSIVE collection of activities

Brainscribed collection features thousands of worksheets with tens of thousands of challenges and activities of different types, created to stimulate the development of visual-motor integration and graphomotor skills in children. With its extensive corpus of materials, it is one of the most comprehensive collections of its kind, **globally**.

Based on BRAIN & EDUCATIONAL SCIENCE

Science fact:
Visual-motor exercises create functional connections among visual and motor regions in brains.

Science fact:
Fine motor skills, non-verbal intelligence and executive functioning are significantly interrelated.

Science fact:
Visual-motor exercises improve graphomotor skills which are important predictors of later academic achievement.

FUN and CHALLENGING activities

Brainscribed resources stimulate visual-motor integration development with countless fun and **developmentally appropriate** activities, designed to be **user friendly** both for adults working with children (easy selection of developmentally appropriate activities according to the child's current stage of visual-motor integration and skills), as well as for children (challenging activities).

Designed for EXPERTS and PARENTS

Brainscribed workbooks provide **teachers** and other **experts** (preschool, school, special education, therapy, etc.) with appropriate and gradually challenging tasks according to developmental needs of their children as well as offer **parents** developmentally appropriate and gradually challenging tasks for their children.

Activities for EVERY child ...

... and for children with DIFFICULTIES

Every child's visual motor integration and skills development can **benefit** from graphomotor / visual-motor tasks and training at home or in a classroom.

Visual-motor deficits and graphomotor difficulties can be debilitating for children. Teachers and other experts working with children with visual motor integration problems or/and with writing problems will find a plentitude of useful and engaging tasks for a **systematic intervention** in Brainscribed workbooks for children with visual-motor difficulties.

Created by EXPERTS

Dr. Kristijan Musek Lešnik (Ph.D.) - Founder and Chair of the Centre for Positive Psychology, University of Primorska, Slovenia - President of the Council of Experts for General Education of the Republic of Slovenia - past President of the Committee for the Children with Special Needs - past President of the National Testing Committee, Slovenia.

Dr. Petra Lešnik Musek (Ph.D. in Developmental Psychology) - Specialist of Clinical Psychology at the Department of Child Neurology, Paediatric Clinic of the University Clinical Centre, Ljubljana, Slovenia - combines years of experience in developmental psychology and family therapy in clinical work with children and their families.

List of Brainscribed volumes - 2025

Collection: CUTTING AND TEARING

- Volume C-1-1: CUTTING AND TEARING: HORIZONTAL AND VERTICAL LINES
- Volume C-1-2: CUTTING AND TEARING: ZIG-ZAG LINES
- Volume C-1-3: CUTTING AND TEARING: WAVY LINES
- Volume C-1-4: CUTTING AND TEARING: SPIRALS
- Volume C-1-5: CUTTING AND TEARING: FLATTENED SPIRALS

Collection: PATTERNS / FINGER GRIP

TWO TO FOUR STICKS

- Volume P-1-1: PATTERNS - STICKS: 2 STICKS - COLOURS
- Volume P-1-2: PATTERNS - STICKS: 2 STICKS - SHAPES

FIVE STICKS

- Volume P-2-1: PATTERNS - STICKS: 5 STICKS - COLOURS
- Volume P-2-2: PATTERNS - STICKS: 5 STICKS - SHAPES
- Volume P-2-3: PATTERNS - STICKS: 5 STICKS - DIFFERENCES: COLOURS
- Volume P-2-4: PATTERNS - STICKS: 5 STICKS - DIFFERENCES: SHAPES
- Volume P-2-5: PATTERNS - STICKS: 5 STICKS - DIFFERENCES: COLOURS AND SHAPES
- Volume P-2-6: PATTERNS - STICKS: 5 STICKS - SPACING

SIX STICKS

- Volume P-3-1: PATTERNS - STICKS: 6 STICKS - COLOURS
- Volume P-3-2: PATTERNS - STICKS: 6 STICKS - SHAPES
- Volume P-3-3: PATTERNS - STICKS: 6 STICKS - COMPLETING
- Volume P-3-4: PATTERNS - STICKS: 6 STICKS - SPACING
- Volume P-3-5: PATTERNS - STICKS: 6 STICKS - MIRRORING

EIGHT STICKS

- Volume P-4-1: PATTERNS - STICKS: 8 STICKS - COLOURS
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- Volume P-4-4: PATTERNS - STICKS: 8 STICKS - ORIENTATION
- Volume P-4-5: PATTERNS - STICKS: 8 STICKS - MIRRORING
- Volume P-4-6: PATTERNS - STICKS: 8 STICKS - OVERLAPPING

TEN STICKS

- Volume P-5-1: PATTERNS - STICKS: 10 STICKS - COLOURS
- Volume P-5-2: PATTERNS - STICKS: 10 STICKS - SHAPES
- Volume P-5-3A: PATTERNS - STICKS: 10 STICKS - FINDING DIFFERENCES: COLOURS 1
- Volume P-5-3B: PATTERNS - STICKS: 10 STICKS - FINDING DIFFERENCES: COLOURS 2
- Volume P-5-4A: PATTERNS - STICKS: 10 STICKS - FINDING DIFFERENCES: SHAPES 1
- Volume P-5-4B: PATTERNS - STICKS: 10 STICKS - FINDING DIFFERENCES: SHAPES 2
- Volume P-5-5: PATTERNS - STICKS: 10 STICKS - ORIENTATION
- Volume P-5-6: PATTERNS - STICKS: 10 STICKS - MIRRORING
- Volume P-5-7: PATTERNS - STICKS: 10 STICKS - OVERLAPPING
- Volume P-5-8: PATTERNS - STICKS: 10 STICKS - INTERVANNING
- Volume P-5-9: PATTERNS - STICKS: 10 STICKS - COMPLETING

3x3 GRID

- Volume P-6-1: DOTS IN A GRID: 3x3 GRID - COLOURS
- Volume P-6-2: SHAPES IN A GRID: 3x3 GRID - SHAPES
- Volume P-6-3: DOTS IN A GRID: 3x3 GRID - DIFFERENCES
- Volume P-6-4: DOTS IN A GRID: 3x3 GRID - COMPLETING
- Volume P-6-5: DOTS IN A GRID: 3X3 GRID - MIRRORING
- Volume P-6-6: SHAPES IN A GRID: 3X3 GRID - MIRRORING

4x4 GRID

- Volume P-7-1: DOTS IN A GRID: 4x4 GRID - COLOURS
- Volume P-7-2: SHAPES IN A GRID: 4x4 GRID - SHAPES
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- Volume P-7-4: DOTS IN A GRID: 4x4 GRID - COMPLETING
- Volume P-7-5: DOTS IN A GRID: 4X4 GRID - MIRRORING
- Volume P-7-6: SHAPES IN A GRID: 4X4 GRID - MIRRORING

Collection: GRAPHOMOTOR SKILLS

BASIC COPYING

- Volume G-1-1: BASIC COPYING: CIRCLES AND SQUARES
- Volume G-1-2: BASIC COPYING: GEOMETRIC SHAPES

TRACING SHAPES

- Volume G-2-1: TRACING SHAPES: TRACING CIRCLES
- Volume G-2-2: TRACING SHAPES: TRACING SQUARES
- Volume G-2-3: TRACING SHAPES: TRACING TRIANGLES
- Volume G-2-4: TRACING SHAPES: BASIC SHAPES
- Volume G-2-5: TRACING SHAPES: TRACING GEOMETRIC SHAPES- DIRECTION
- Volume G-2-6: TRACING SHAPES: TRACING ANGLED SHAPES
- Volume G-2-7: TRACING SHAPES: TRACING ROUNDED SHAPES
- Volume G-2-8: TRACING SHAPES: TRACING IRREGULAR SHAPES

SHAPE CONSTANCY

- Volume G-3-1: SHAPE CONSTANCY: FINISHING SHAPES -LARGE SHAPES
- Volume G-3-2: SHAPE CONSTANCY: FINISHING SHAPES - MEDIUM AND SMALL SHAPES
- Volume G-3-3: SHAPE CONSTANCY: TRACING AND FINISHING SHAPES - LARGE SHAPES
- Volume G-3-4: SHAPE CONSTANCY: TRACING AND FINISHING SHAPES - MEDIUM AND SMALL SHAPES

TRACING & CONNECTING

- Volume G-4-1: TRACING & CONNECTING: TRACING HORIZONTAL AND VERTICAL LINES
- Volume G-4-2: TRACING & CONNECTING: TRACING ZIG-ZAG LINES
- Volume G-4-3: TRACING & CONNECTING: TRACING WAVY LINES
- Volume G-4-4: TRACING & CONNECTING: TRACING STRAIGHT AND IRREGULAR LINES
- Volume G-4-5: TRACING & CONNECTING: TRACING CURVED LINES
- Volume G-4-6: TRACING & CONNECTING: CONNECTING - STRAIGHT LINES AND ANGLES
- Volume G-4-7: TRACING & CONNECTING: DRAWING LINES DOT TO DOT

SPATIAL ORGANIZATION

- Volume G-5-1: SPATIAL ORGANIZATION: CONNECTING DOTS - LINES
- Volume G-5-2: SPATIAL ORGANIZATION: CONNECTING DOTS - PATTERNS
- Volume G-5-3: SPATIAL ORGANIZATION: CONNECTING DOTS - SHAPES
- Volume G-5-4: SPATIAL ORGANIZATION: DRAWING LOOPS IN 8x8 GRID
- Volume G-5-5: SPATIAL ORGANIZATION: DRAWING LOOPS IN 12x12 GRID

CHANELLING

- Volume G-6-1: CHANELLING: STRAIGHT LINES AND ANGLES
- Volume G-6-2: CHANELLING: WAVY AND CURVED LINES
- Volume G-6-3: CHANELLING: SIMPLE CURVED LINES: NO DOTS
- Volume G-6-4: CHANELLING: COMPLEX CURVED LINES: NO DOTS
- Volume G-6-5: CHANELLING: CURVED LINES: WITH HELPING DOTS
- Volume G-6-6: CHANELLING: CHANELLING IRREGULAR SHAPES
- Volume G-6-71: CHANELLING: PATHS -10 mm WIDTH
- Volume G-6-72: CHANELLING: PATHS -6 mm WIDTH
- Volume G-6-73: CHANELLING: PATHS -4 mm WIDTH
- Volume G-6-74: CHANELLING: PATHS -2 mm WIDTH

MAZES

- Volume G-7-1: MAZES: 5 x 5 AND 6 x 6 MAZES
- Volume G-7-2: MAZES: 7 x 7 AND 8 x 8 MAZES -
- Volume G-7-3: MAZES: 9x9 AND 10x10 MAZES
- Volume G-7-4: MAZES: 12x12 MAZES
- Volume G-7-5: MAZES: 9x9 AND 11x11 ESCAPE MAZES
- Volume G-7-7: MAZES: 16x16 ESCAPE MAZES
- Volume G-7-8: MAZES: PATHS

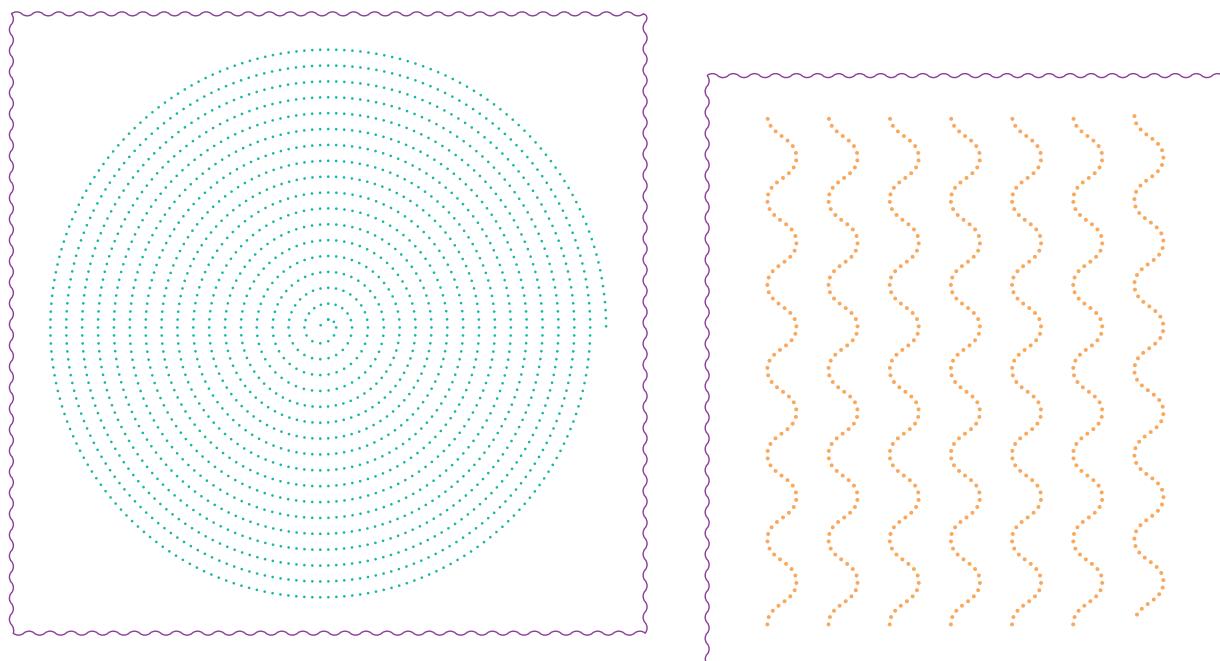
Different types of Brainscribed tasks

Brainscribed activities are organised into thematic workbooks.

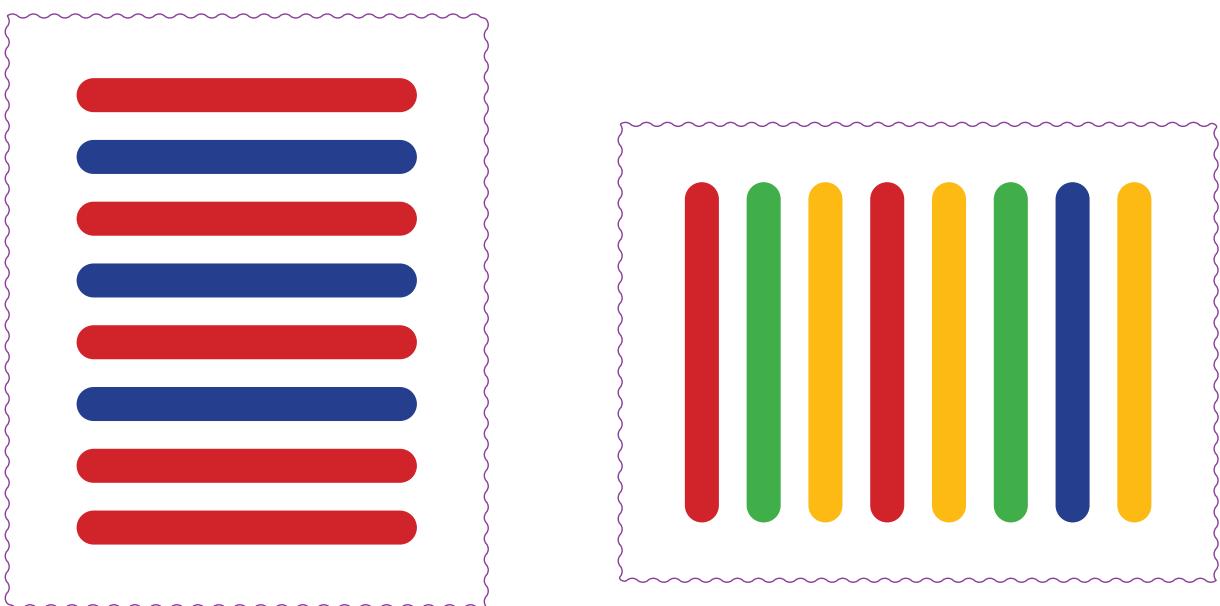
In each volume, the difficulty of the tasks gradually increases.

All Brainscribed activities are designed to stimulate visual-motor integration and the development of graphomotor and other fine-motor skills in a way that is interesting and engaging for children.

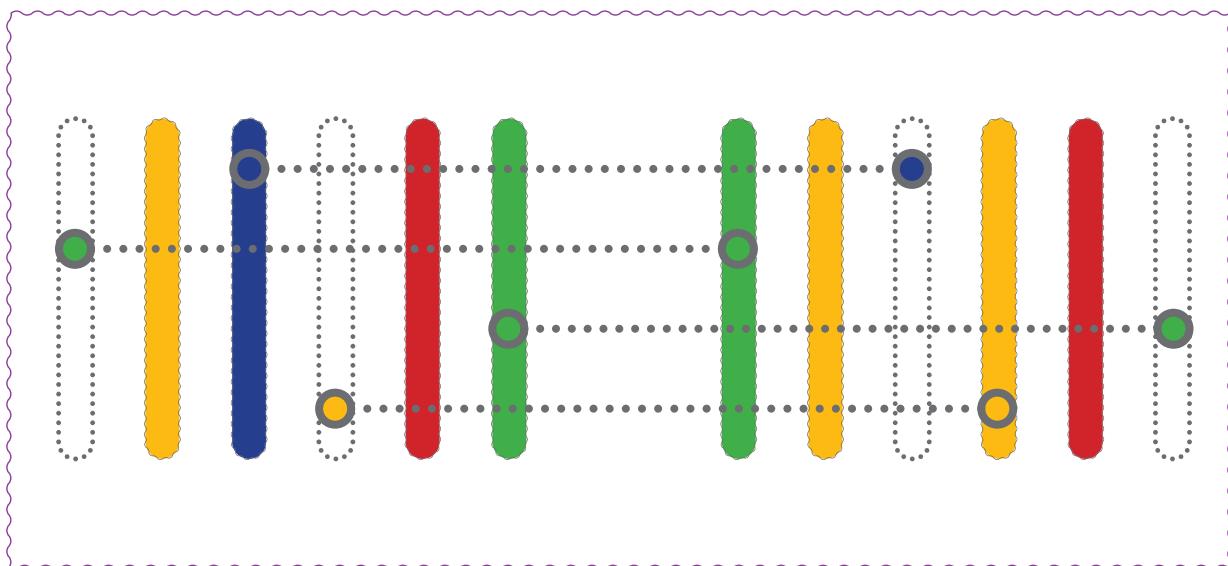
CUTTING AND TEARING ...



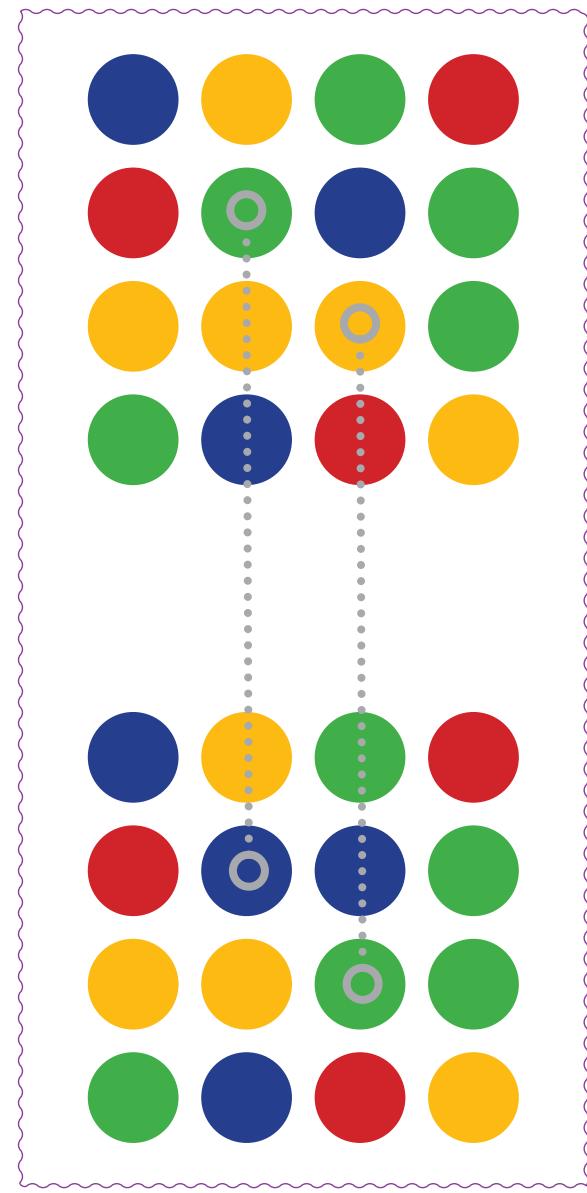
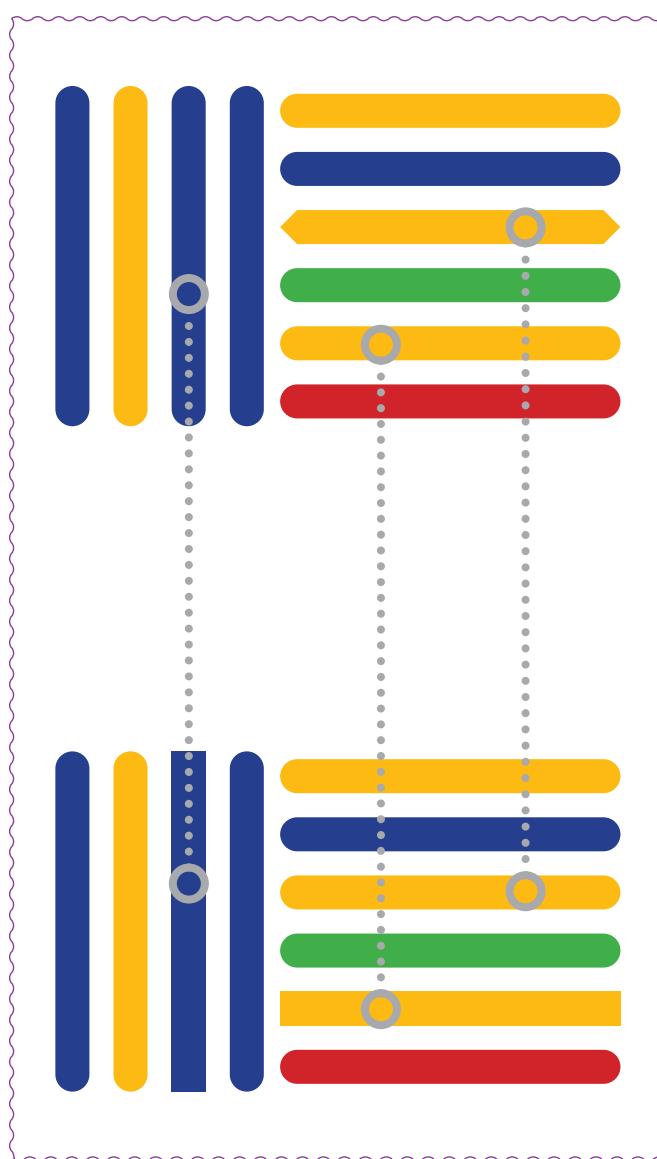
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... COMPARING AND COMPLETING PATTERNS...



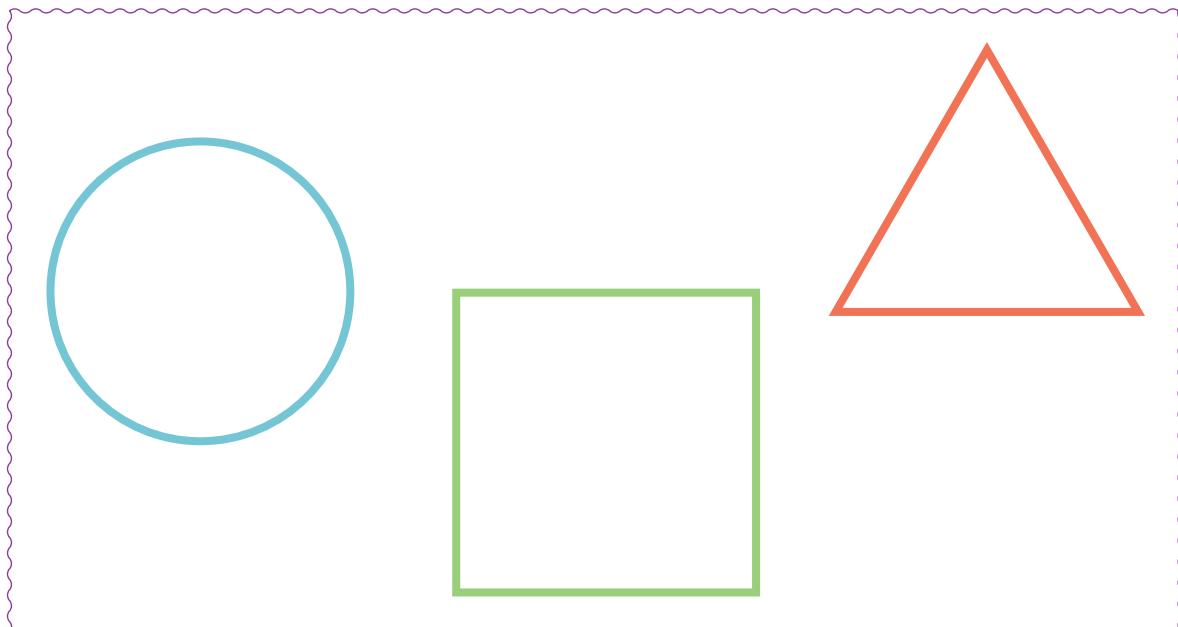
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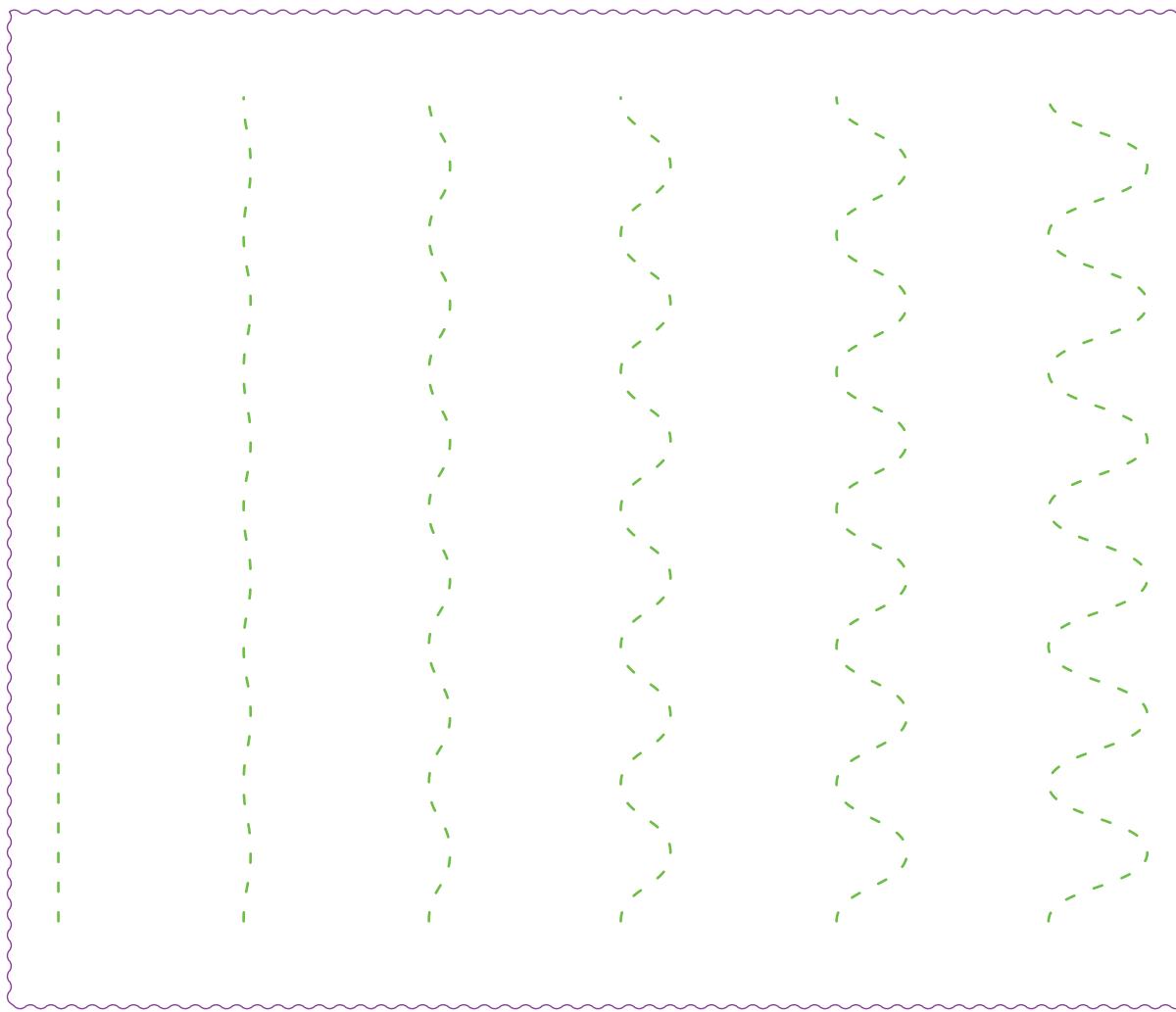
Different types of Brainscribed tasks

Different types of Brainscribed tasks

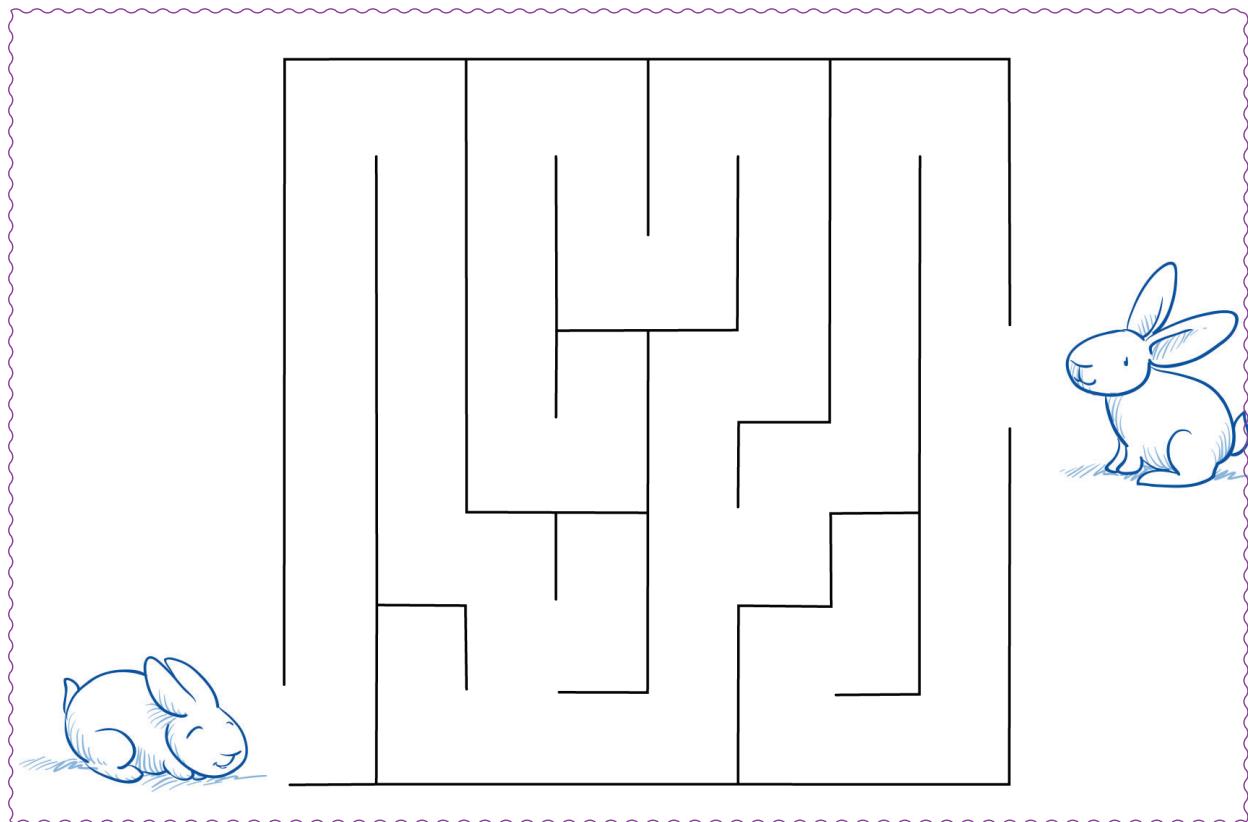
COPYING OF DIFFERENT SHAPES ...



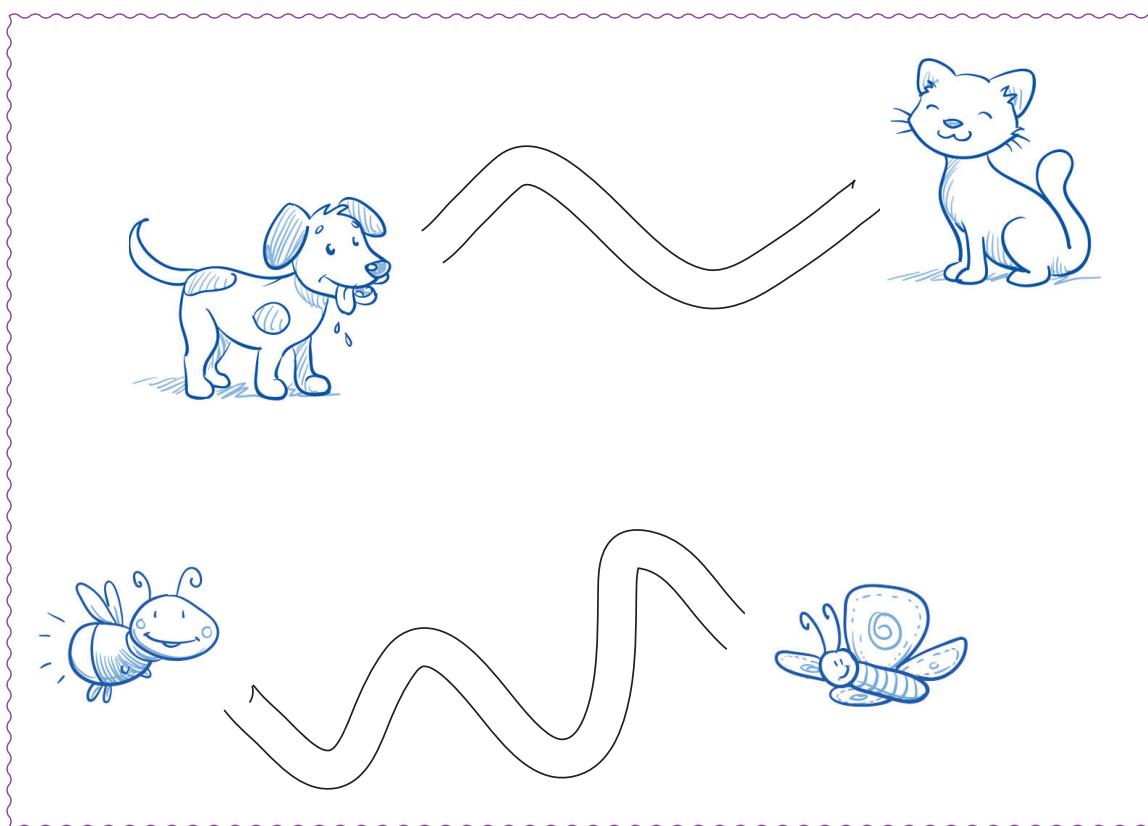
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... SOLVING MAZES ...



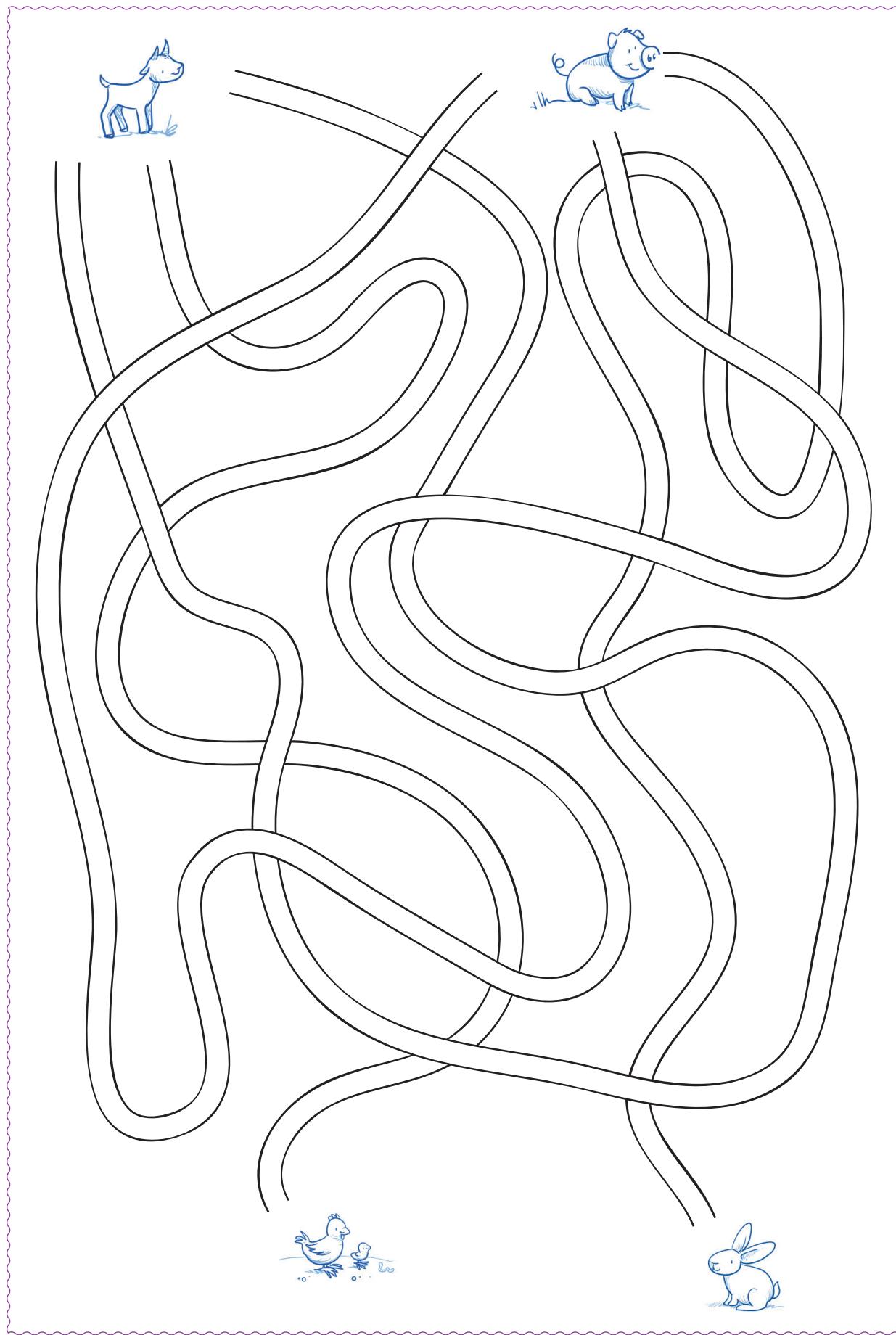
... CHANELLING - DRAWING A PATH BETWEEN TWO GUIDING LINES...



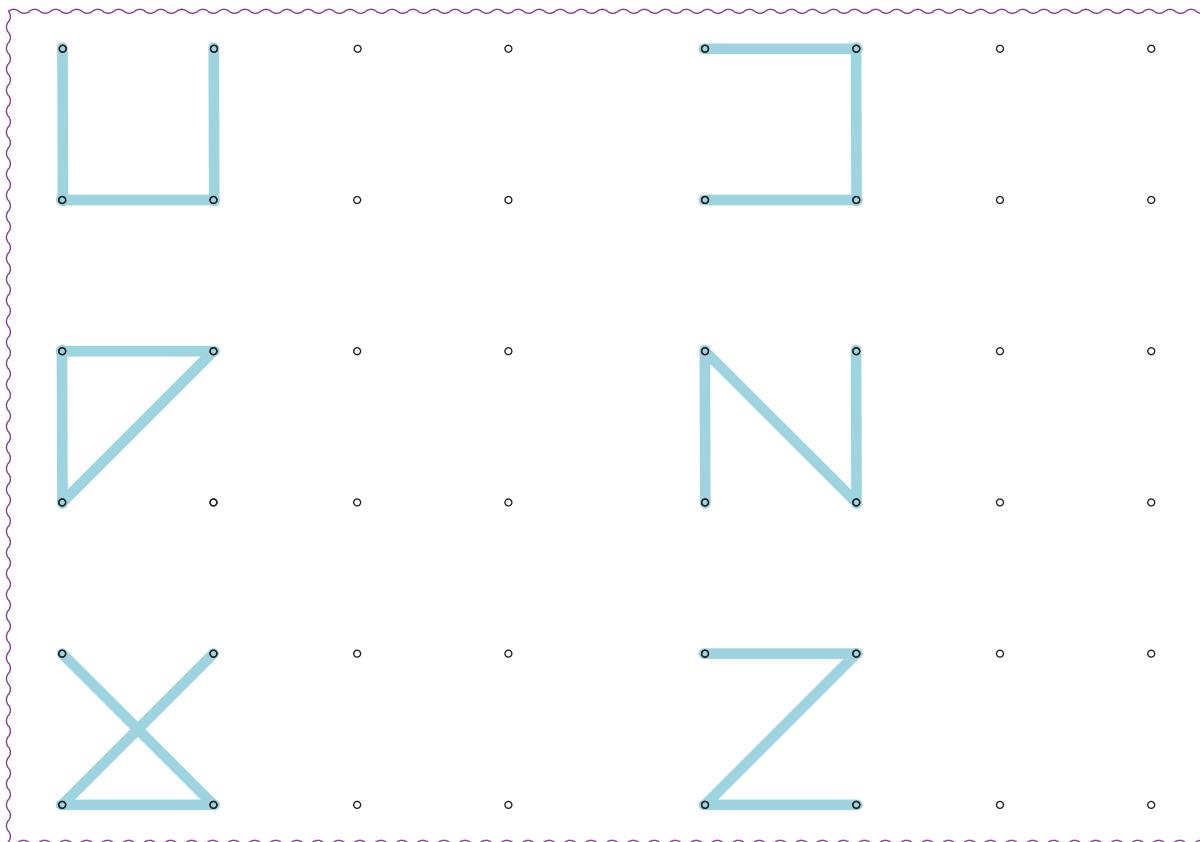
Different types of Brainscribed tasks

Different types of Brainscribed tasks

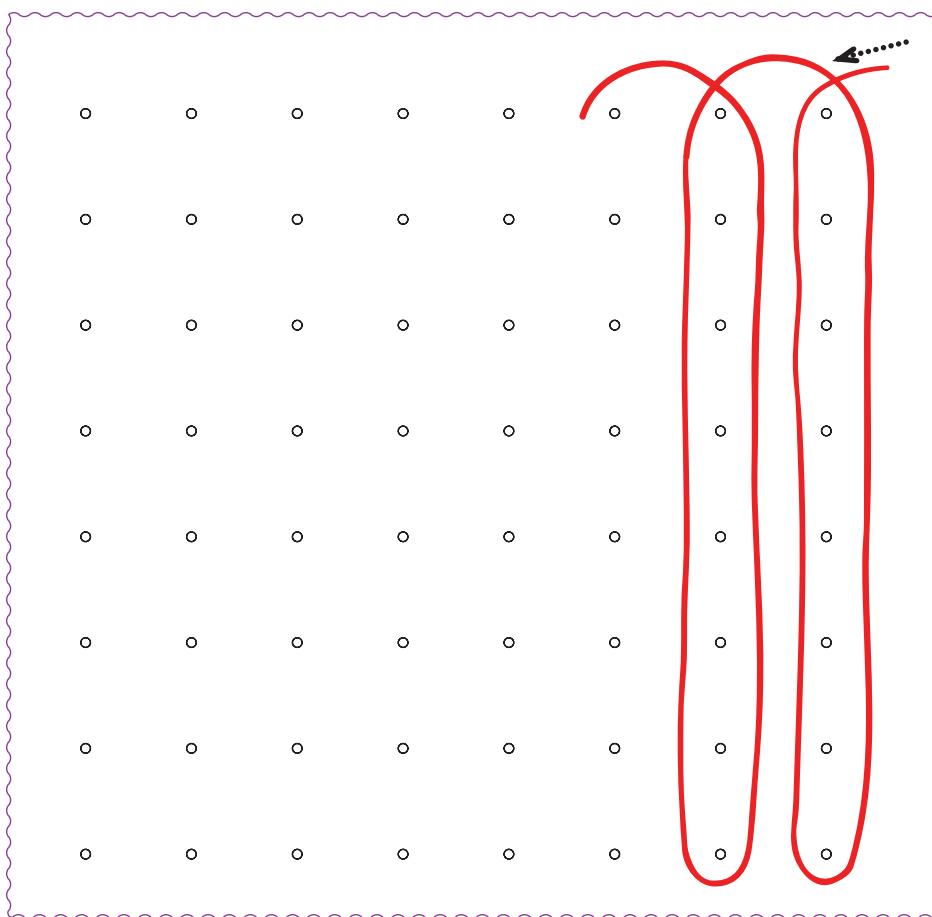
... SEARCHING AND TRACING PATHS ...



... CONNECTING DOTS ...



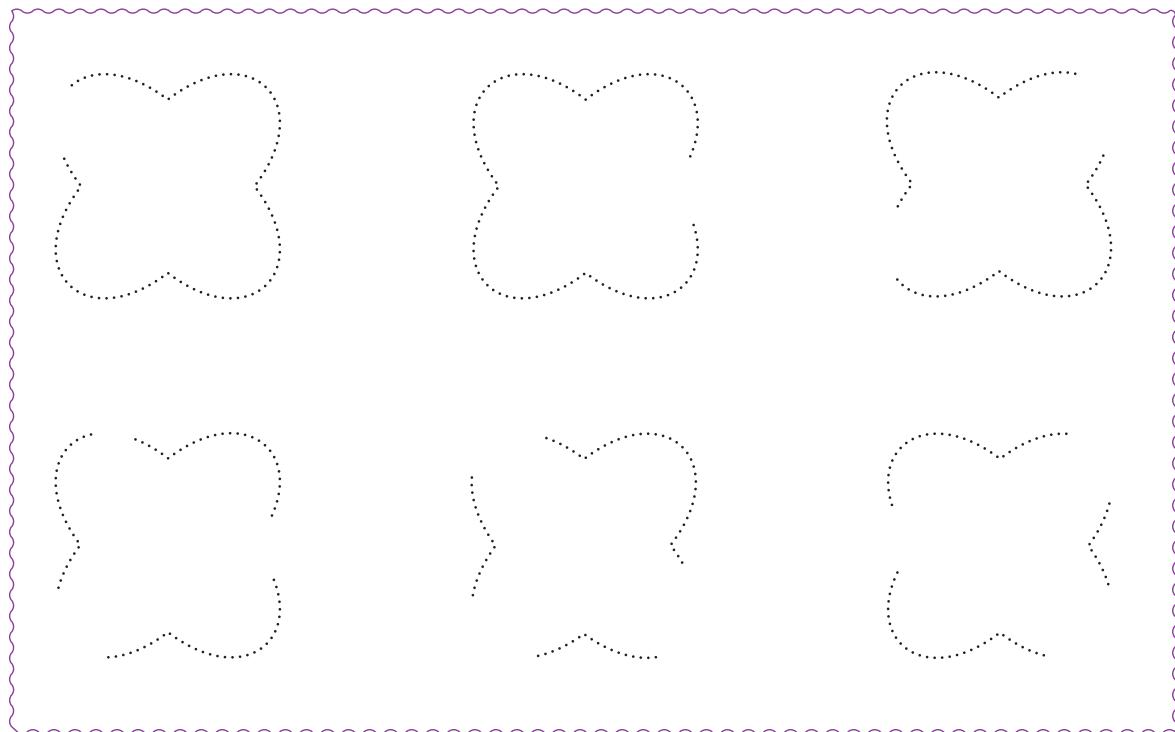
... DRAWING CURVES AND LOOPS IN A GRID...



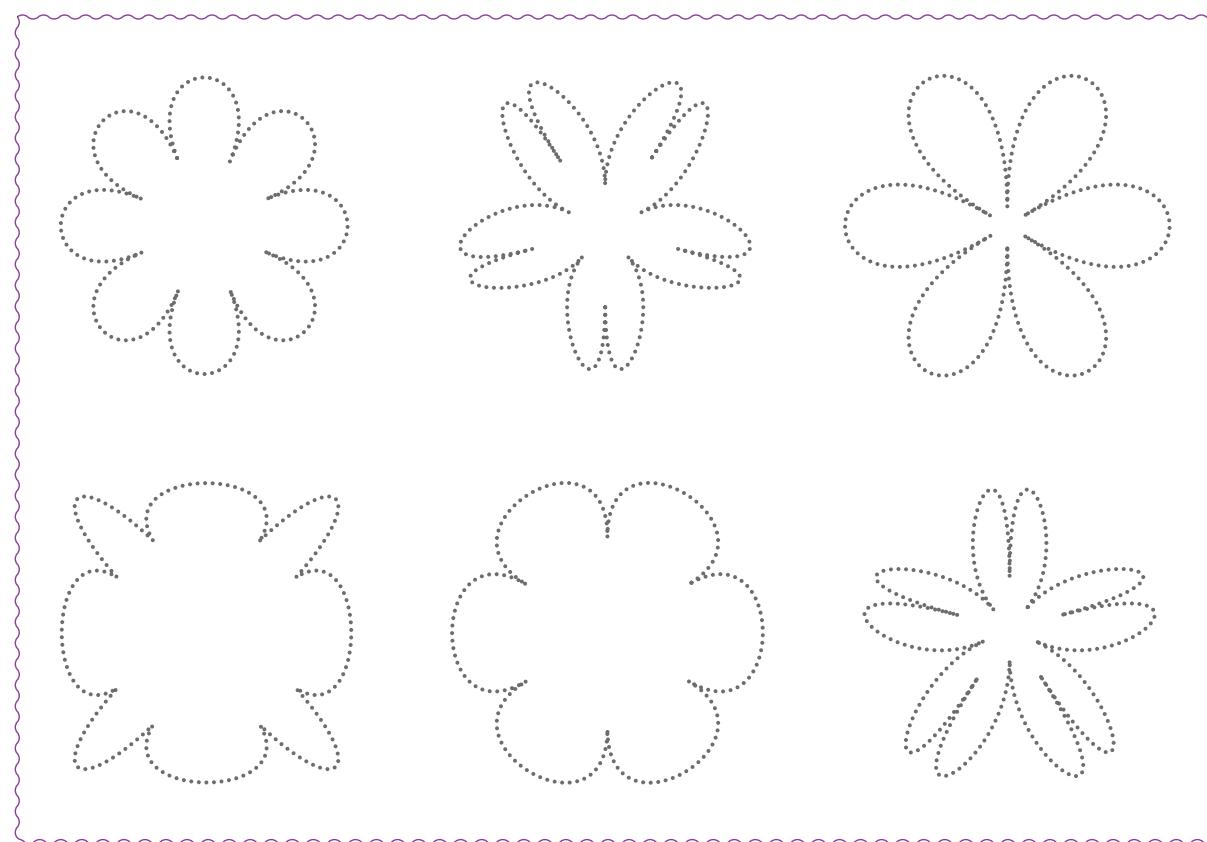
Different types of Brainscribed tasks

Different types of Brainscribed tasks

... SEARCHING AND COMPLETING SHAPES ...



... TRACING DIFFERENT SHAPES ...



... AND MANY OTHER TYPES OF EXERCISES IN THE VARIOUS BRAINSCRIBED WORKBOOKS!