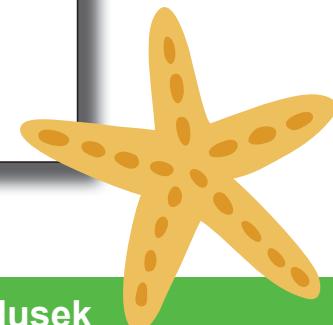
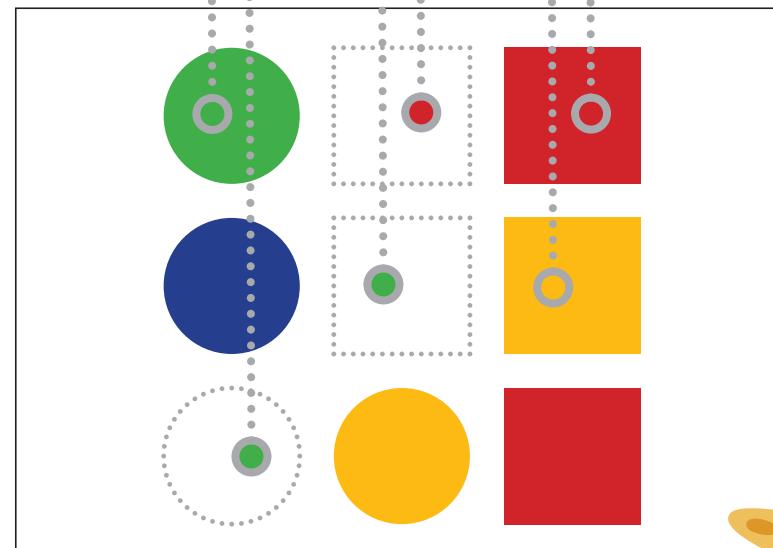
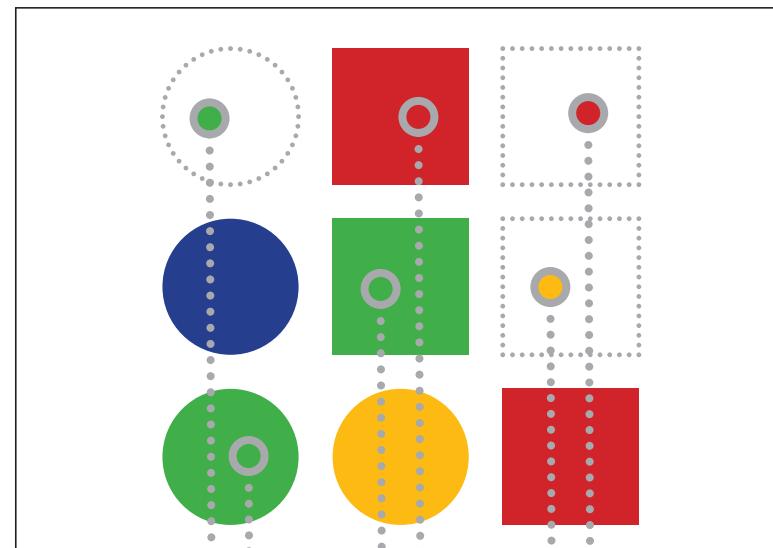


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# PATTERNS - SHAPES IN A GRID

## 3X3 GRID - MIRRORING



dr. Kristijan Musek Lešnik, dr. Petra Lešnik Musek

VISUAL-MOTOR INTEGRATION AND FINE-MOTOR SKILLS DEVELOPMENT RESOURCES

# **PATTERNS - SHAPES IN A GRID**

## **3X3 GRID - MIRRORING**

**dr. Kristijan Musek Lešnik**

**dr. Petra Lešnik Musek**



# PATTERNS - SHAPES IN A GRID

## 3X3 GRID - MIRRORING

**dr. Kristijan Musek Lešnik**  
**dr. Petra Lešnik Musek**

Title of the workbook: PATTERNS - SHAPES IN A GRID: 3X3 GRID - MIRRORING  
Brainscribed program - supporting visual-motor integration and fine-motor skills development.

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Number of pages: 188



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

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# Tasks in this workbook

The collection consists of pairs of identical patterns that are missing some circles or squares. The aim of each task is to create two matching patterns.

The children compare the two patterns to identify which circles or squares belong to the spots where the shapes are missing.

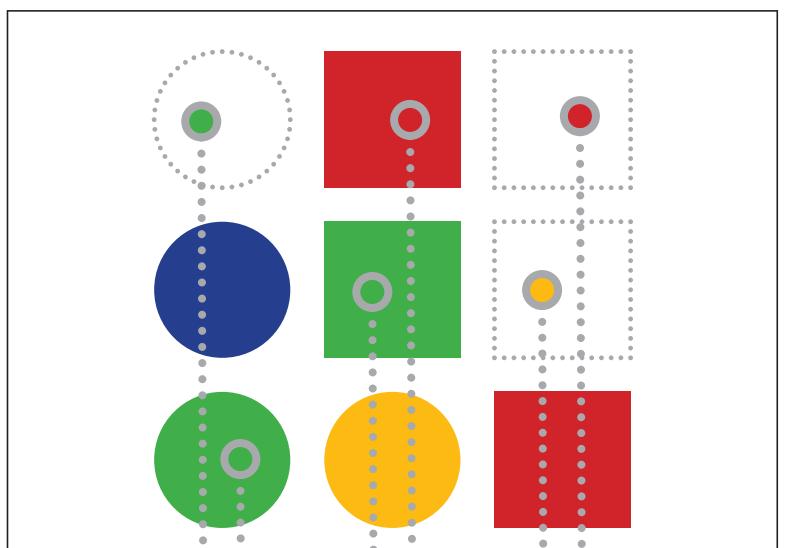
Each pattern consists of nine circles or squares coloured in four colours: blue, red, yellow and green.

The number of missing shapes in each pattern increases from the beginning to the end of the volume - this increases the difficulty of the challenges.

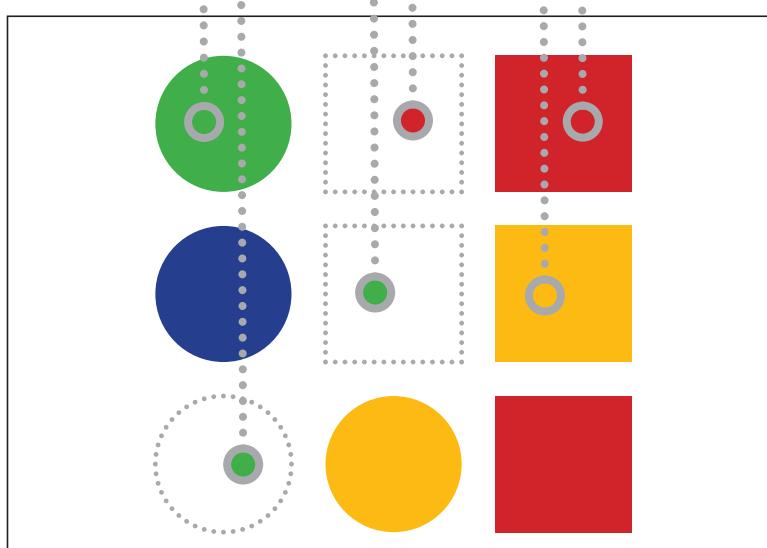
## Instructions:

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

## Example:



Missing shapes



Missing shapes

# 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:

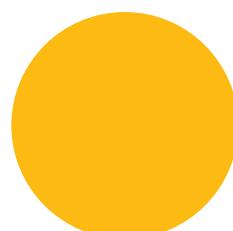
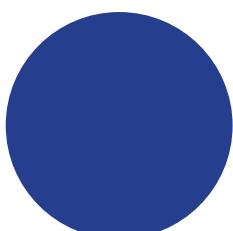
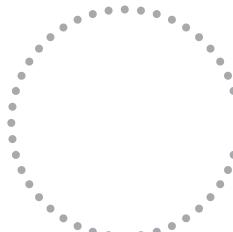
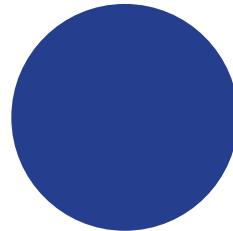
- version 1 - children compare two patterns on the template, both of which are incomplete; they place the corresponding shapes in the empty spaces to create two identical patterns,
- version 2 - children pick the corresponding coloured shapes from the pile and arrange them on a flat surface according to the patterns on the template; they then compare the two patterns and fill in the voids of both patterns with the corresponding circles or squares to create two identical patterns.

On pages 6 to 17 you will find printed coloured circles and squares 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 shapes are more suitable for children who have already developed better fine motor control of their fingers) and the available room, you can print smaller (30 mm), medium (70mm) or larger shapes (120mm).

Print and then laminate as many copies of the sheets with coloured shapes 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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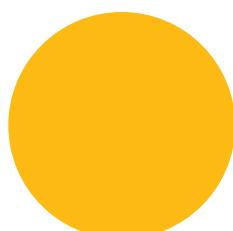
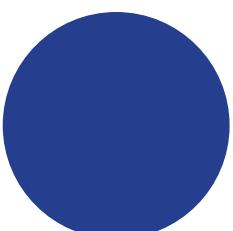
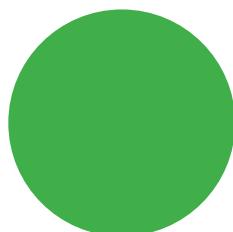
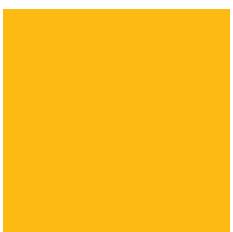
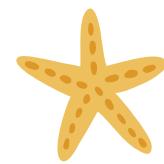
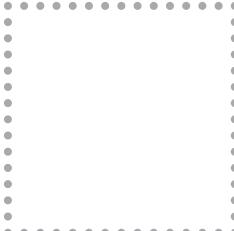
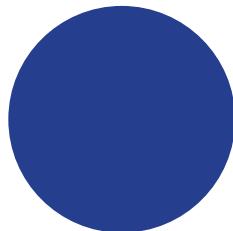
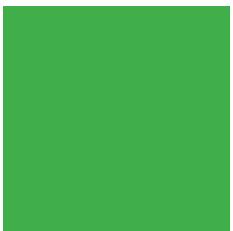
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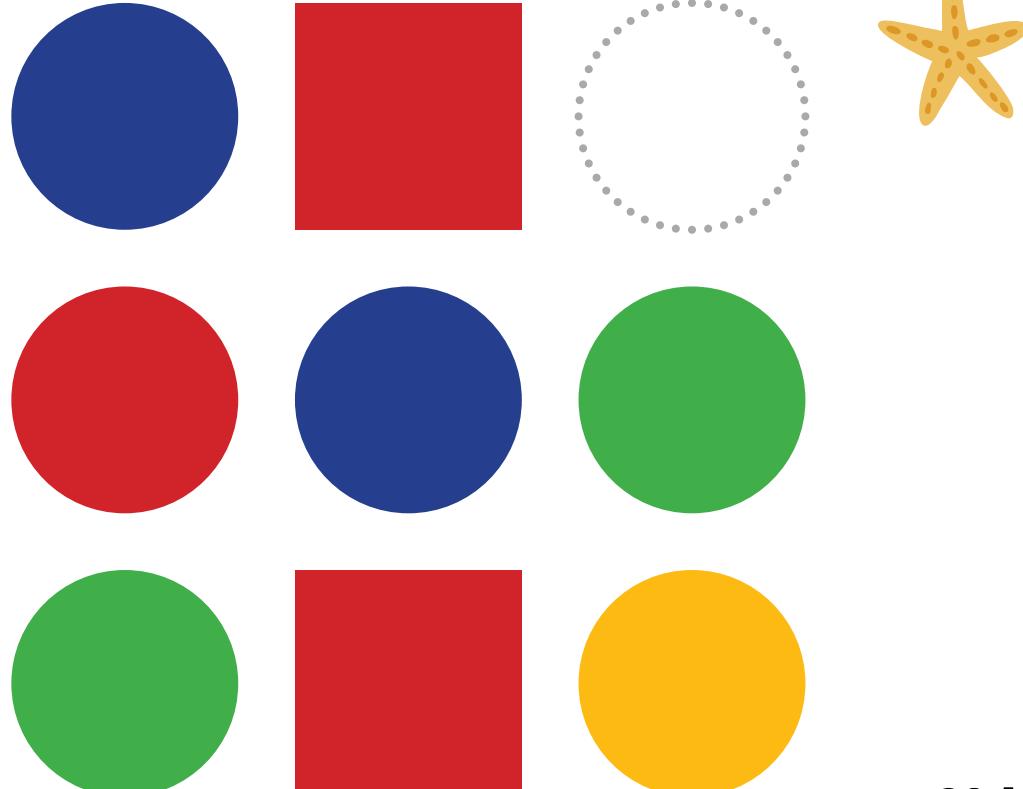
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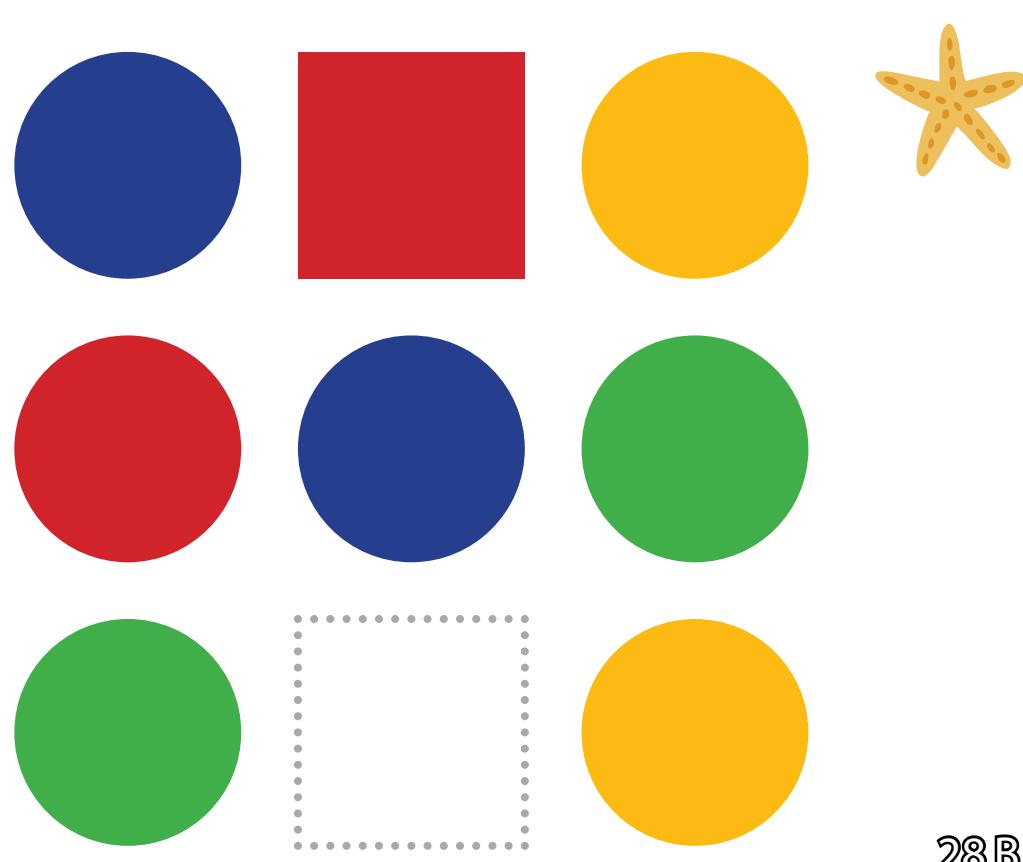
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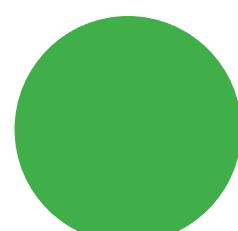
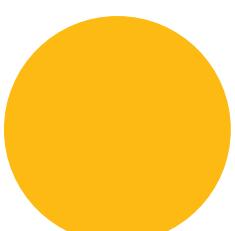
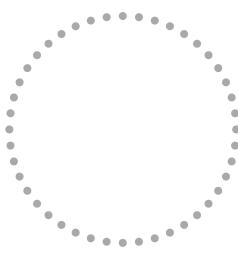
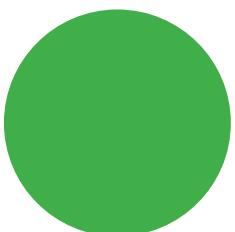
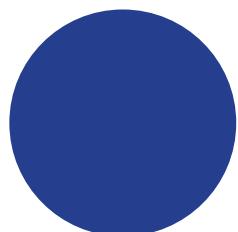
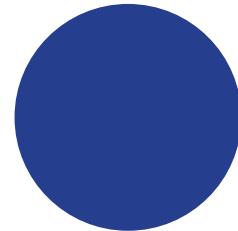
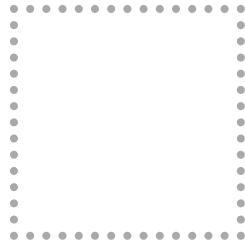
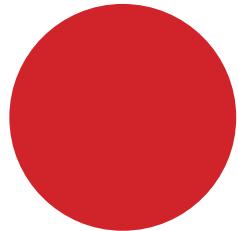
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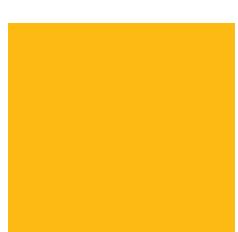
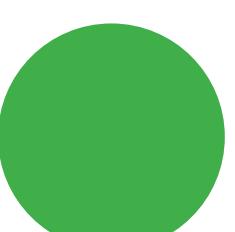
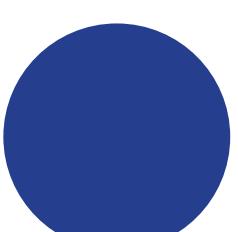
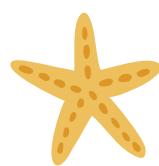
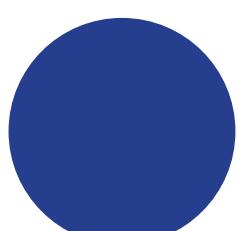
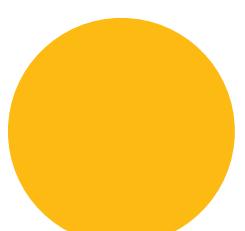
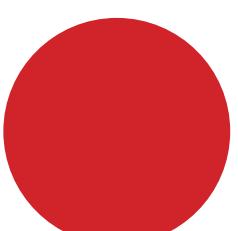


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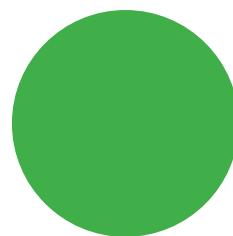
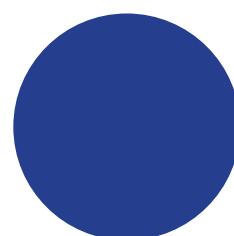
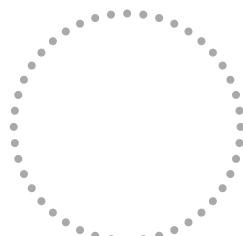
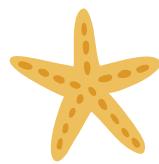
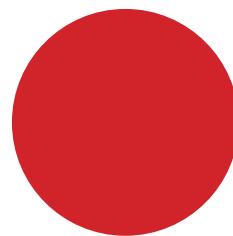
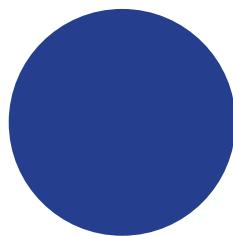


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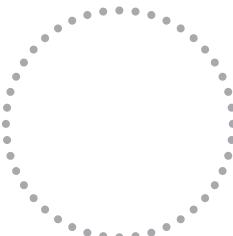
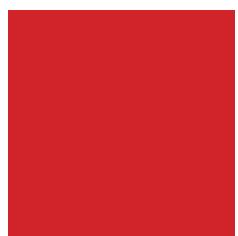
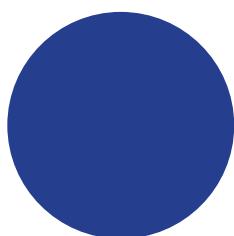
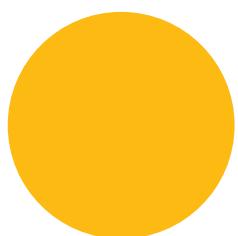
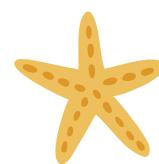
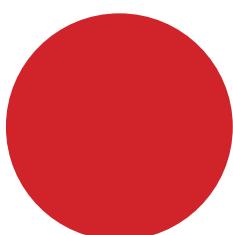
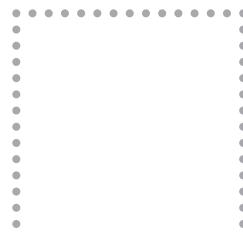
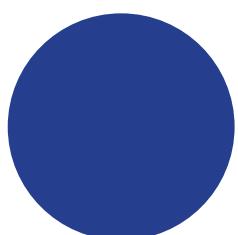
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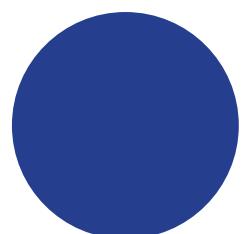
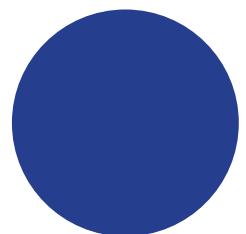
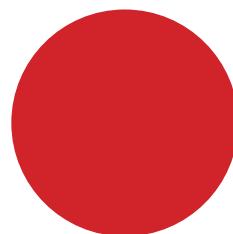
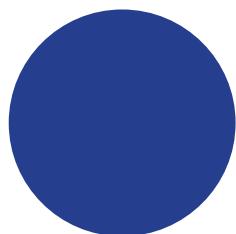
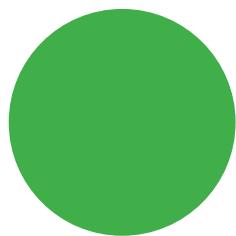
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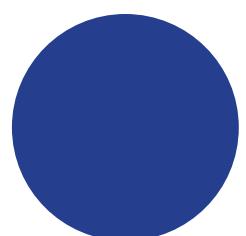
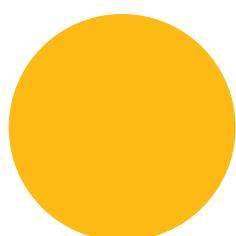
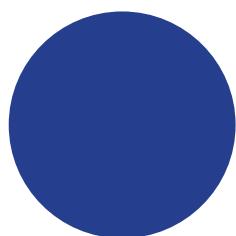
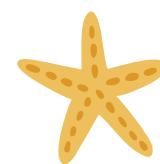
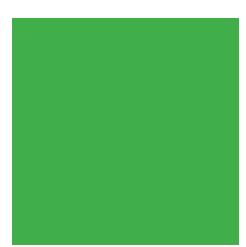
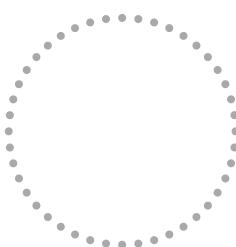
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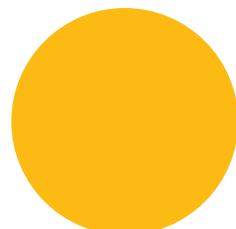
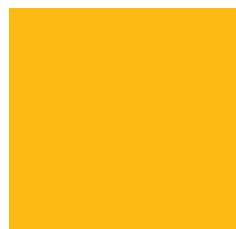
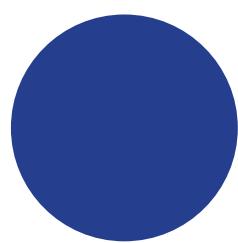
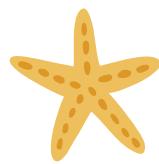
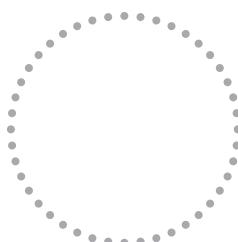


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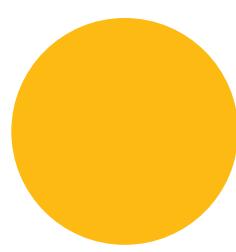
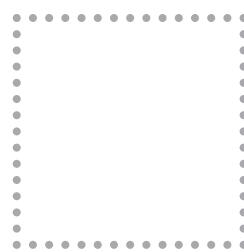
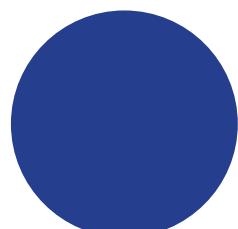
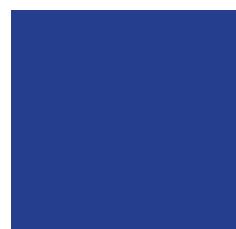
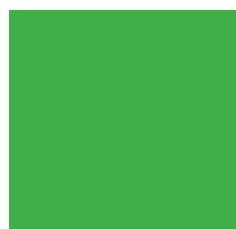
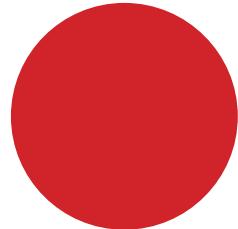
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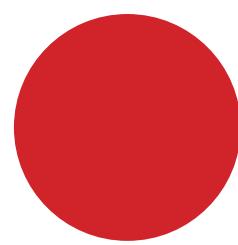
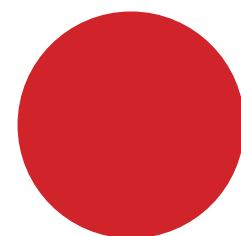
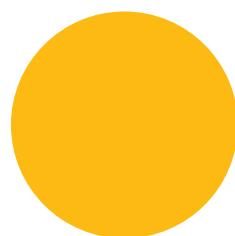
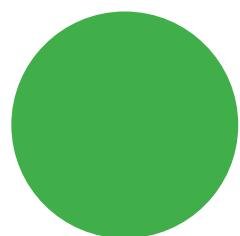
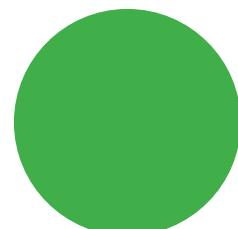
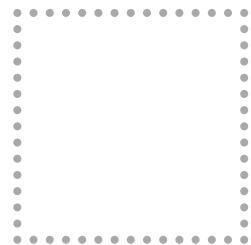
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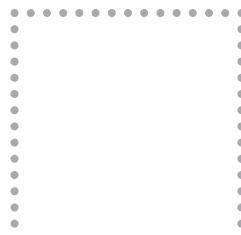
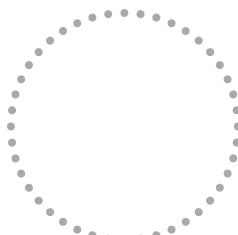
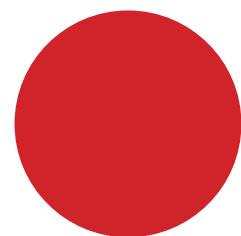
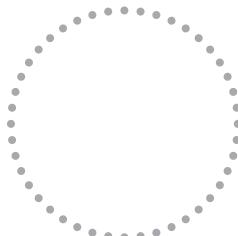
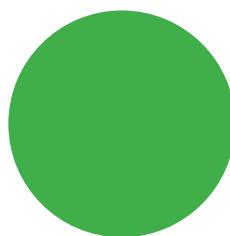
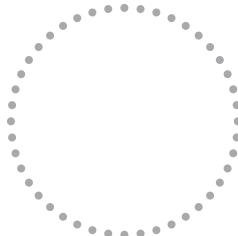
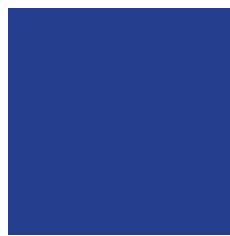


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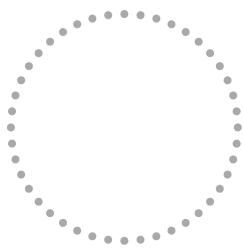
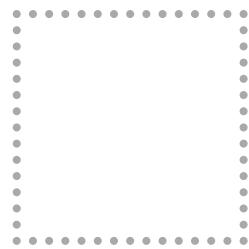
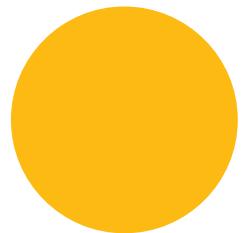
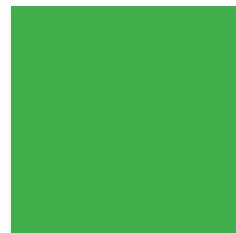
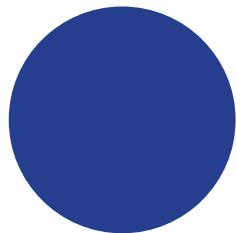
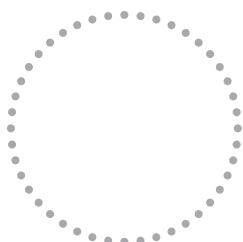


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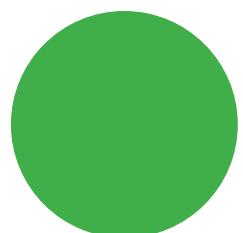
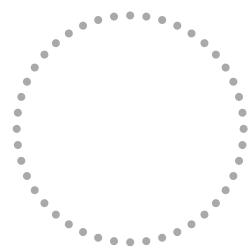
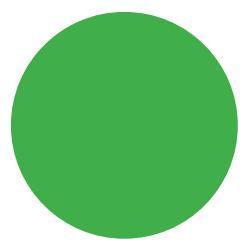
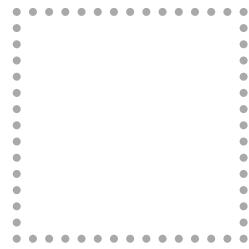
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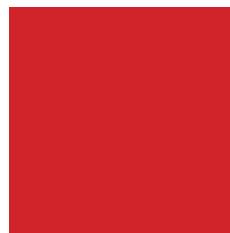
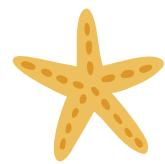
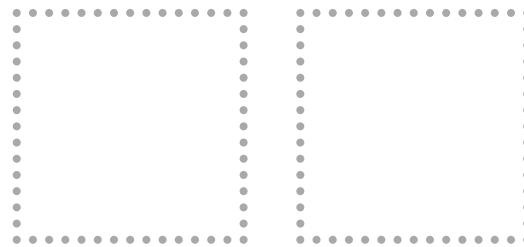
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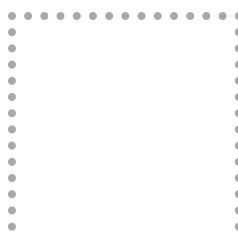
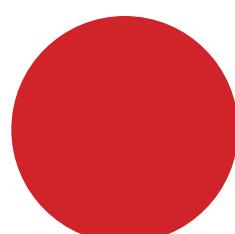
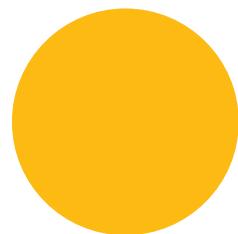
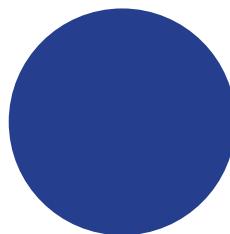


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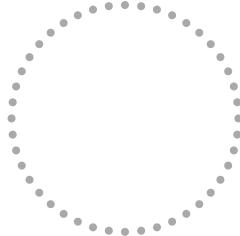
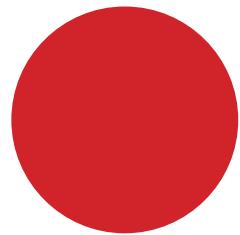
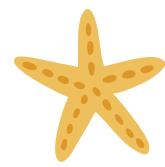
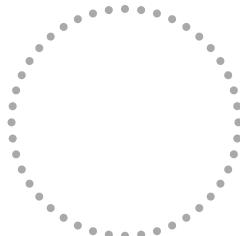
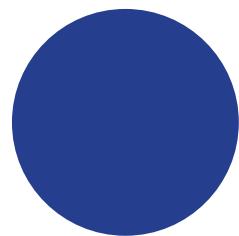
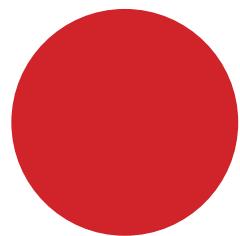
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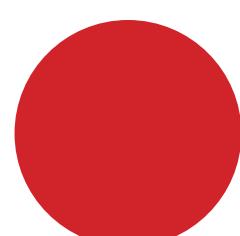
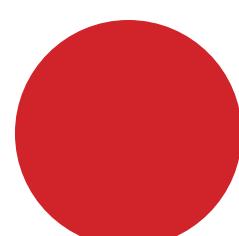
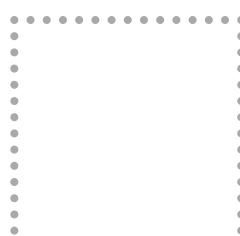
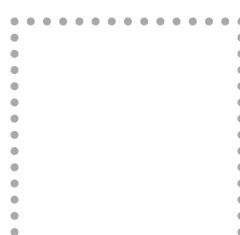
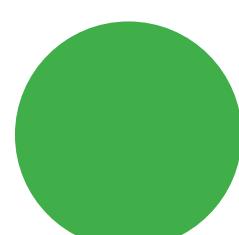
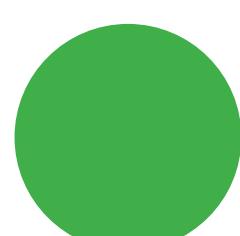


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Brainscribed volume: PATTERNS - SHAPES IN A GRID: 3X3 GRID - MIRRORING

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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
- Volume P-4-2: PATTERNS - STICKS: 8 STICKS - SHAPES
- Volume P-4-3: PATTERNS - STICKS: 8 STICKS - COMPLETING
- 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
- Volume P-7-3: DOTS IN A GRID: 4x4 GRID - DIFFERENCES
- 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

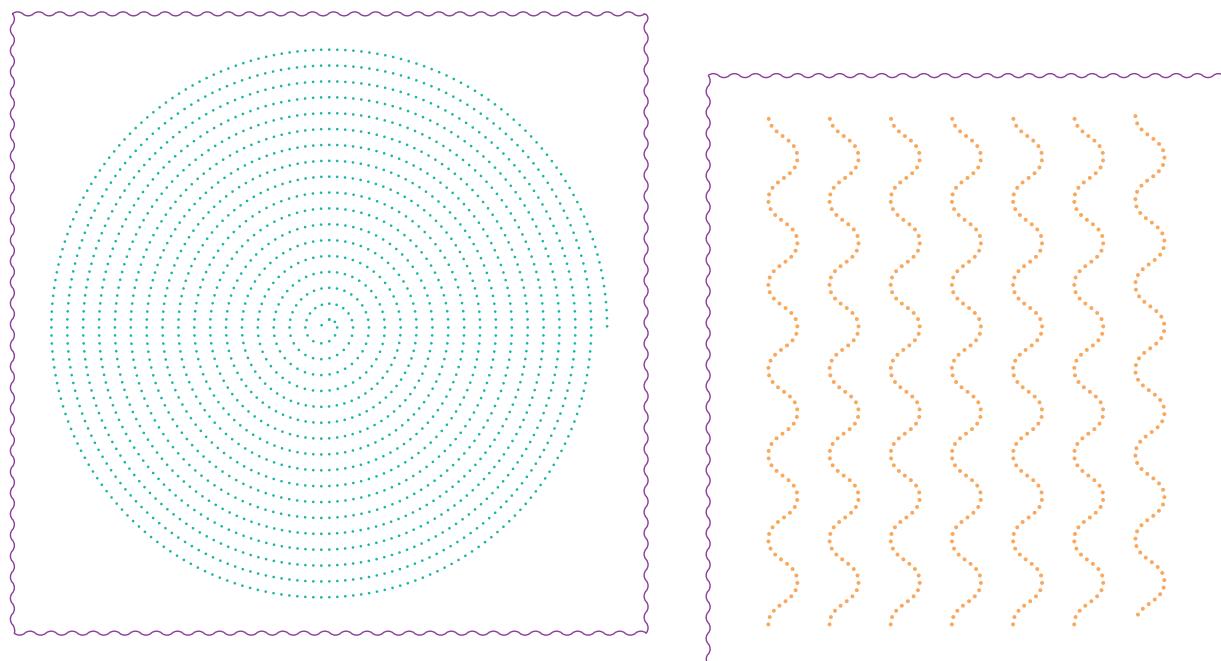
# Different types of Brainscribed tasks

Brainscribed activities are organised into thematic workbooks.

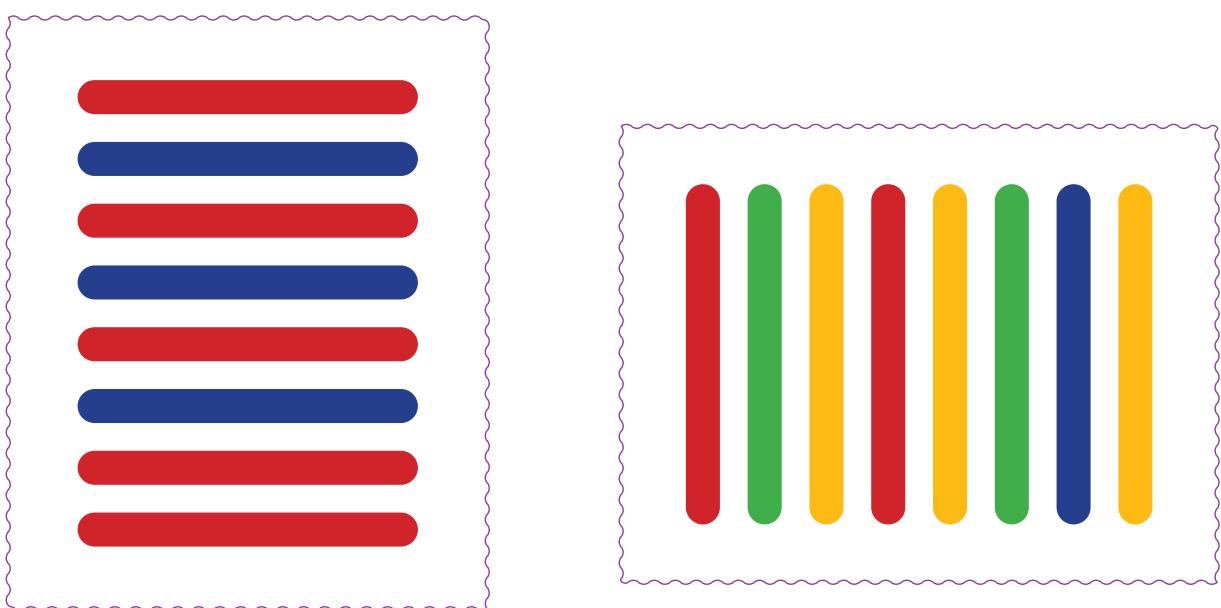
In each volume, the difficulty of the tasks gradually increases.

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.

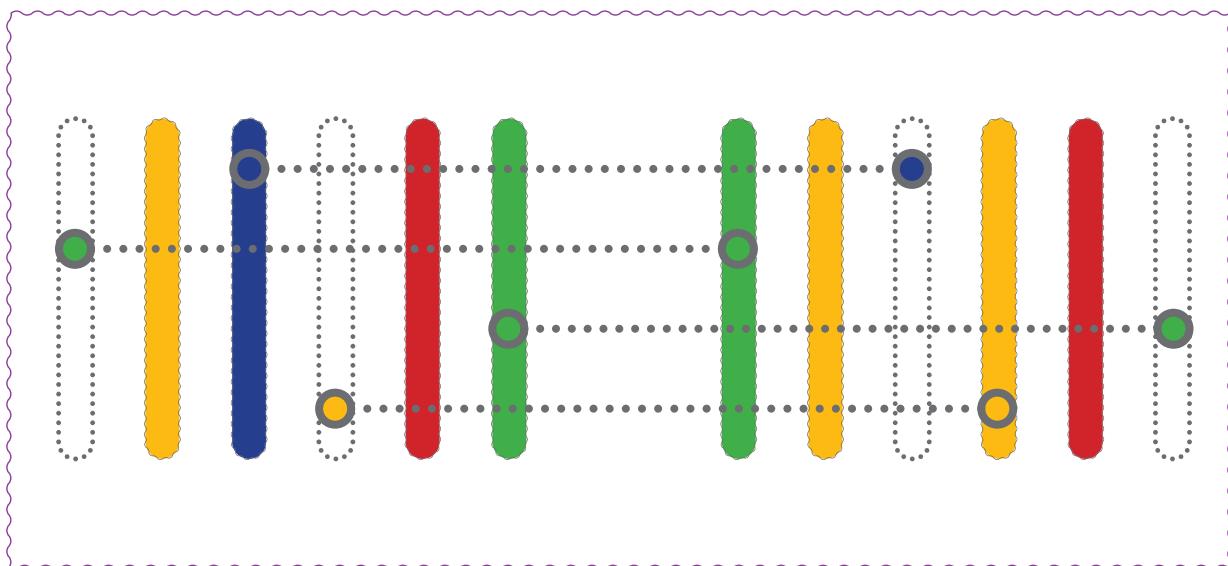
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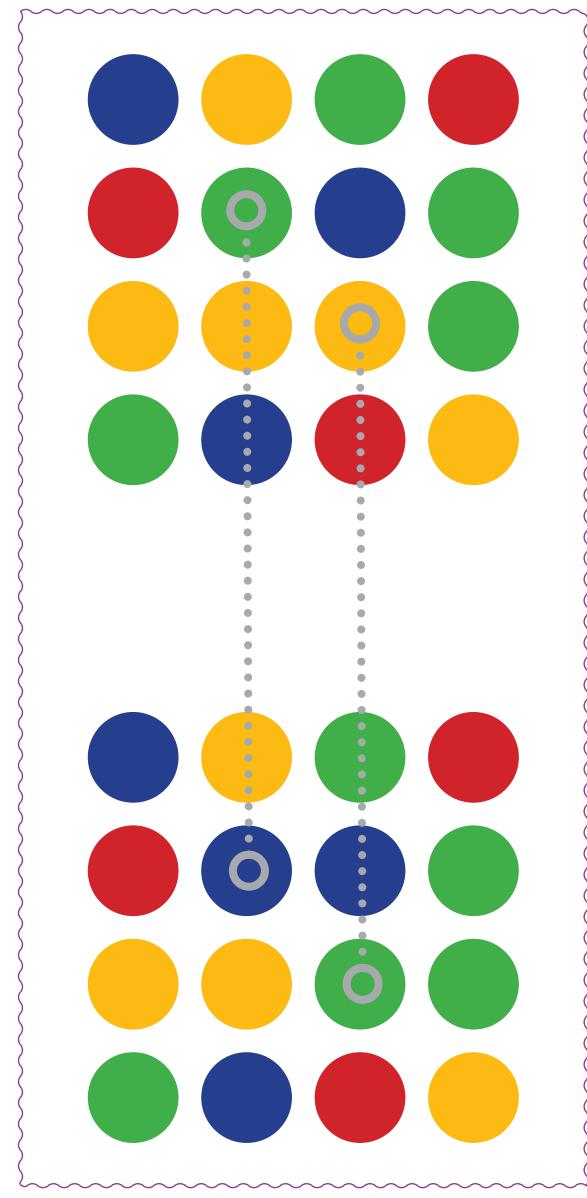
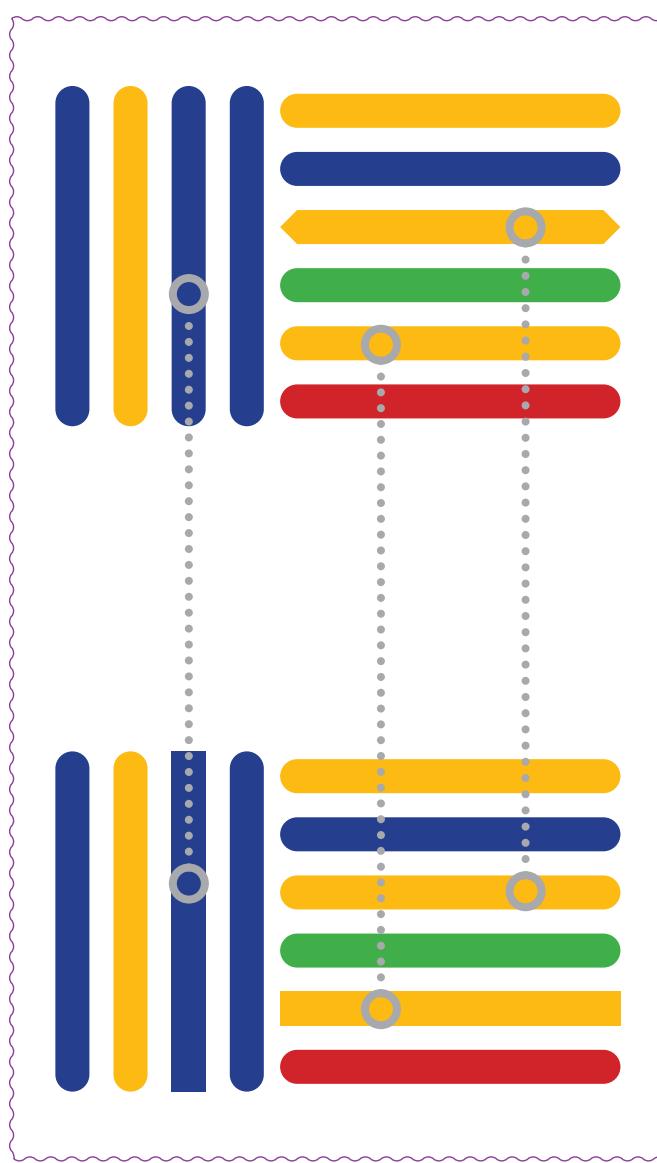
## ... COPYING PATTERNS ...



... COMPARING AND COMPLETING PATTERNS...



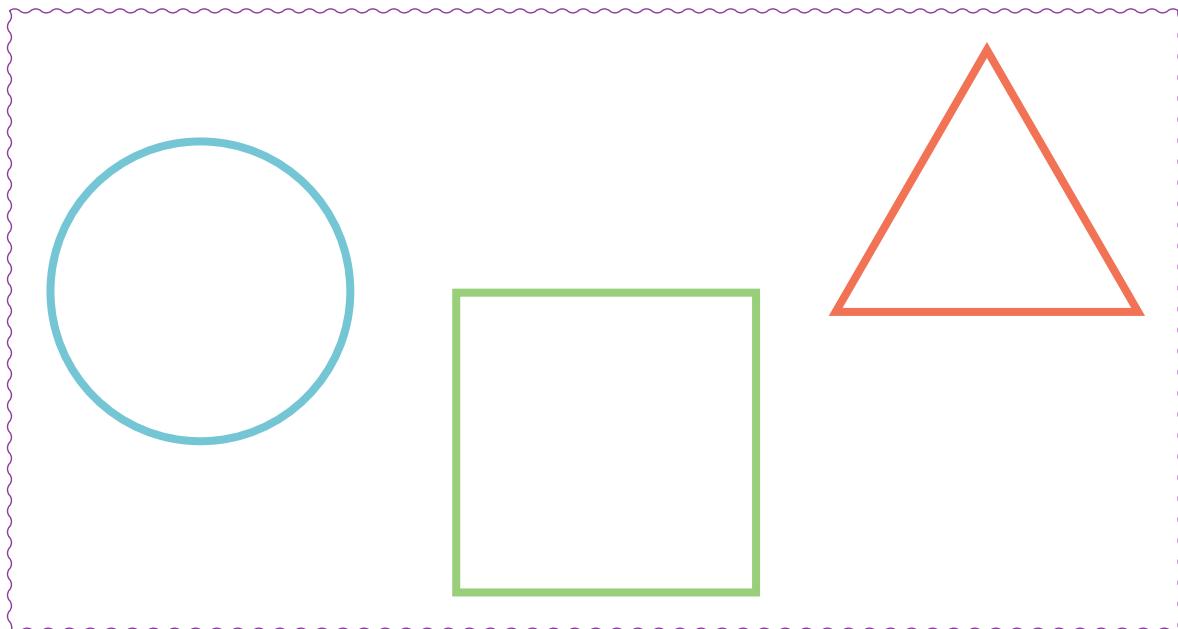
... FINDING THE DIFFERENCES ...



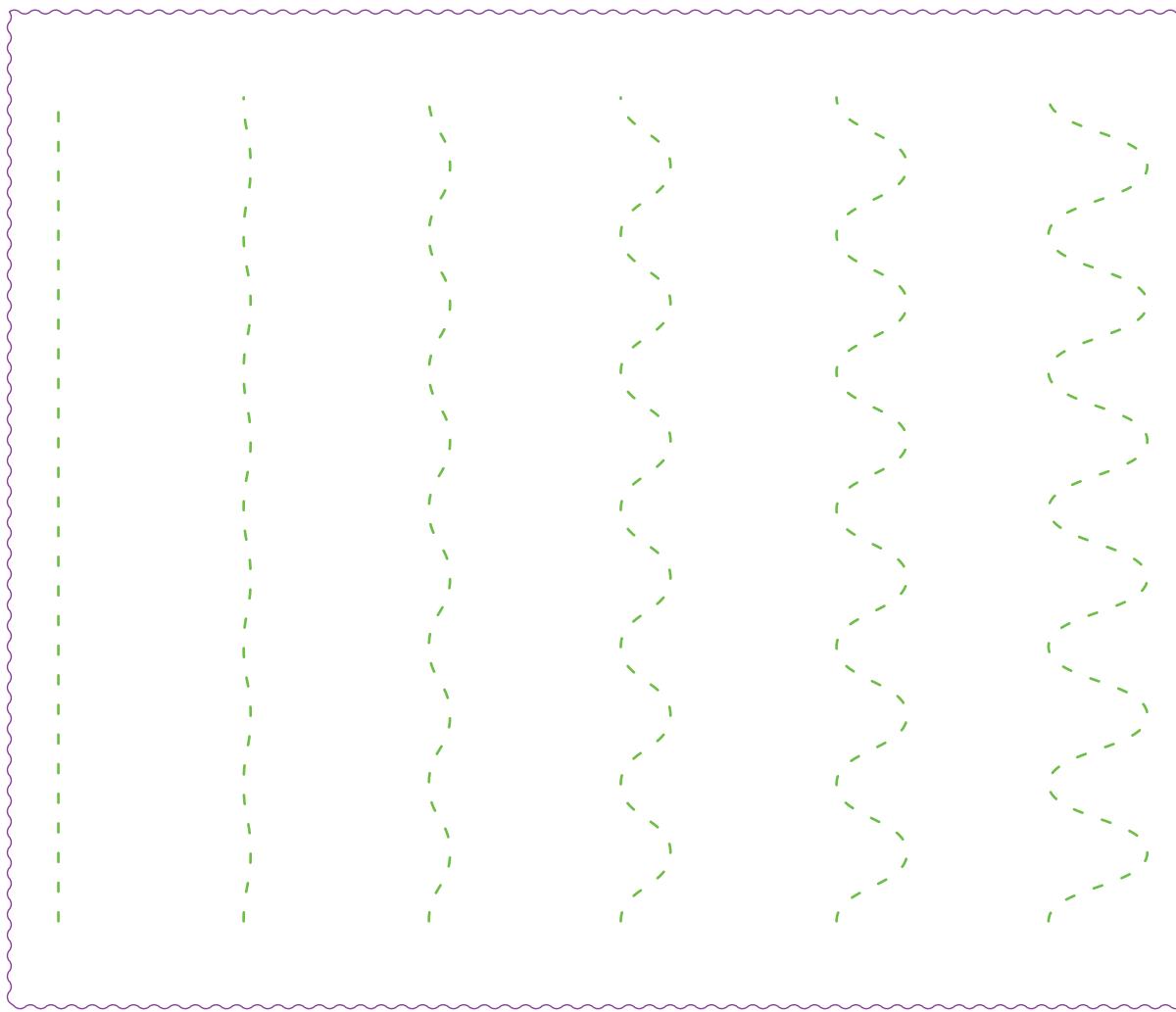
## Different types of Brainscribed tasks

# Different types of Brainscribed tasks

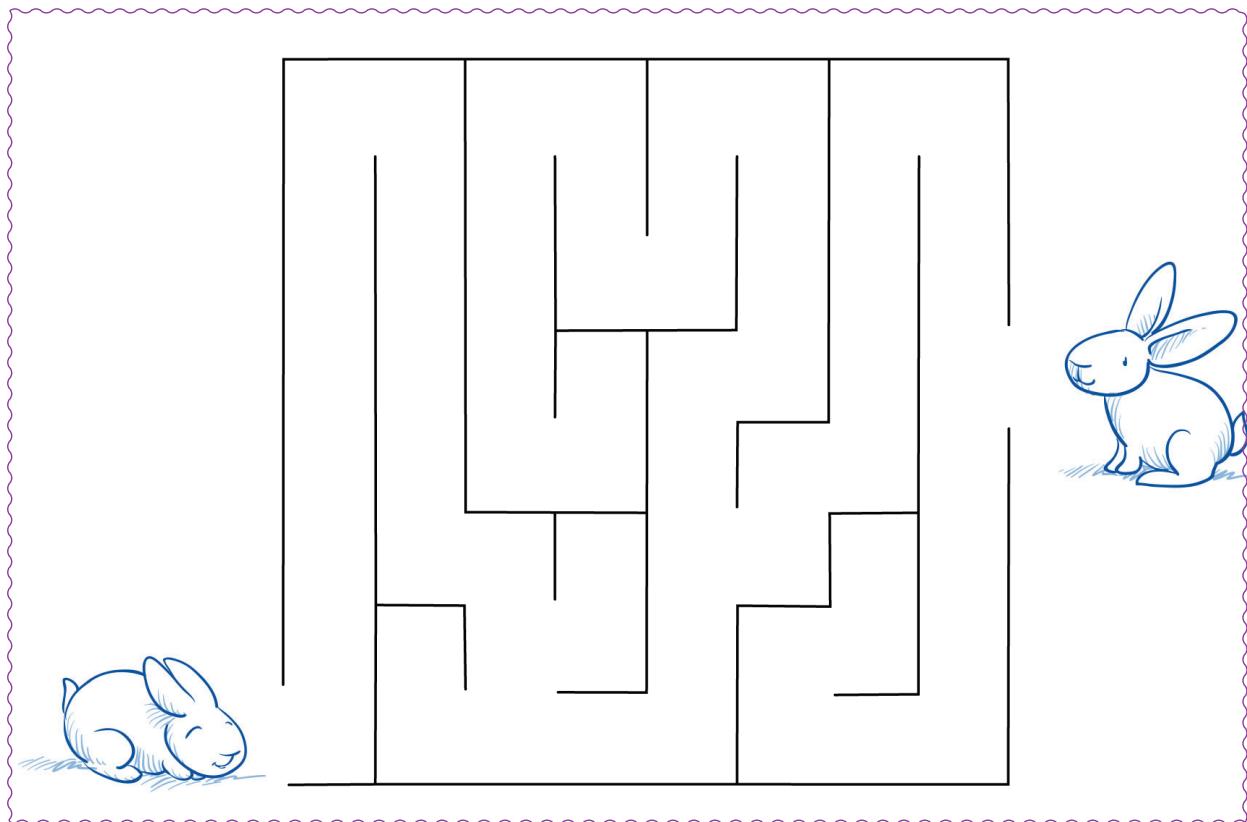
COPYING OF DIFFERENT SHAPES ...



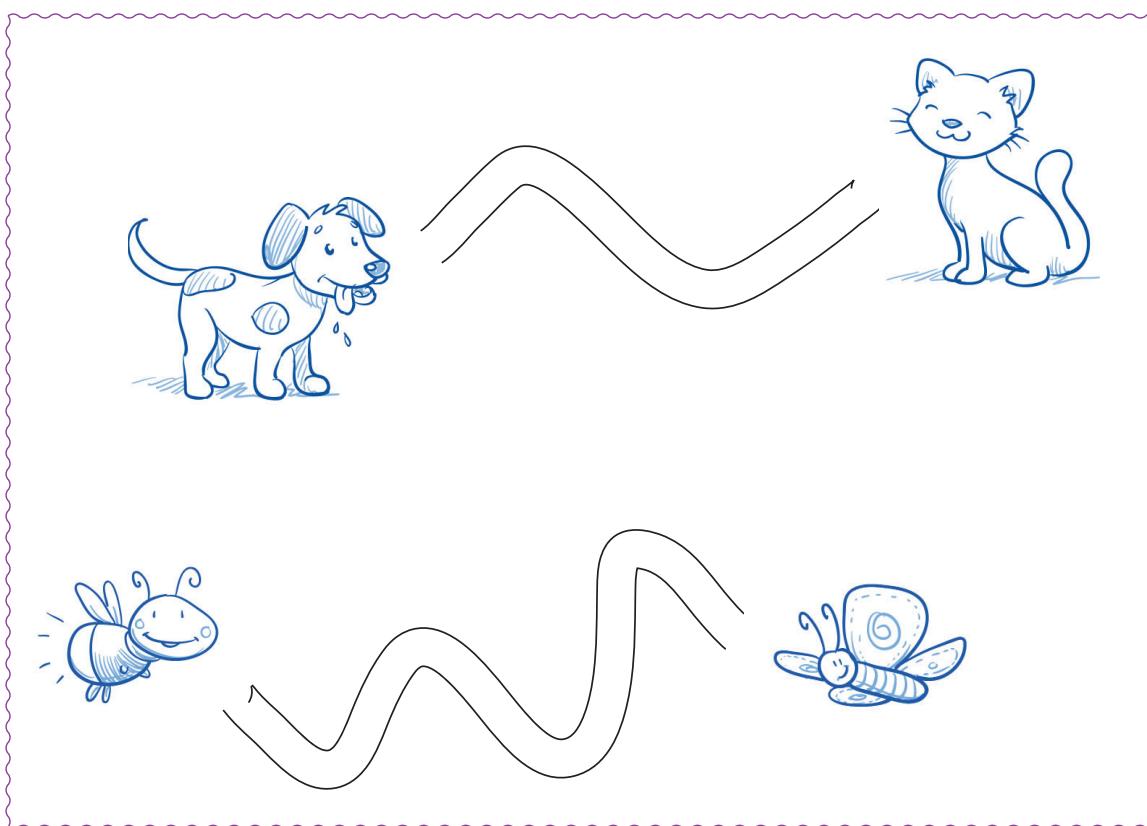
... TRACING LINES ...



... SOLVING MAZES ...



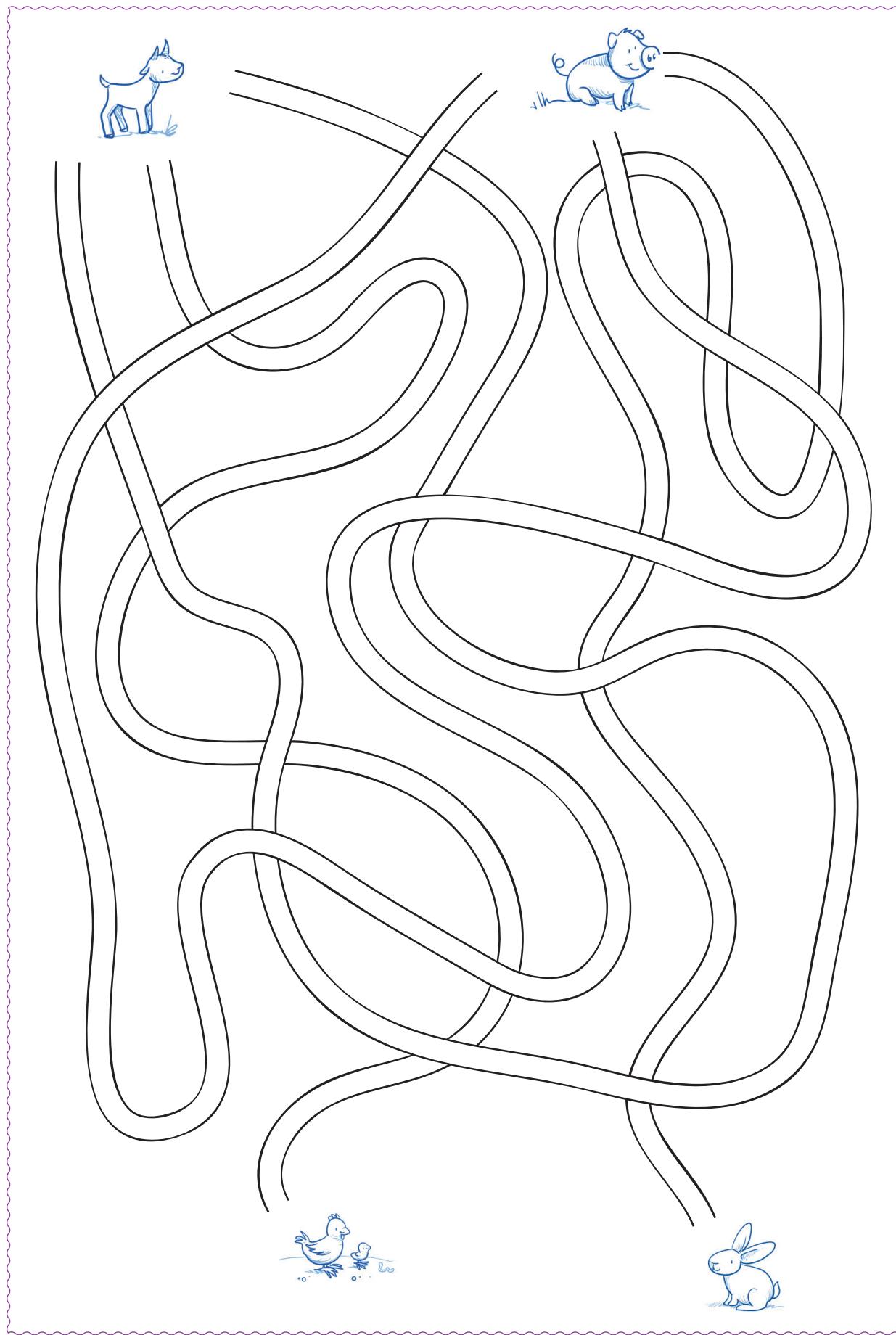
... CHANELLING - DRAWING A PATH BETWEEN TWO GUIDING LINES...



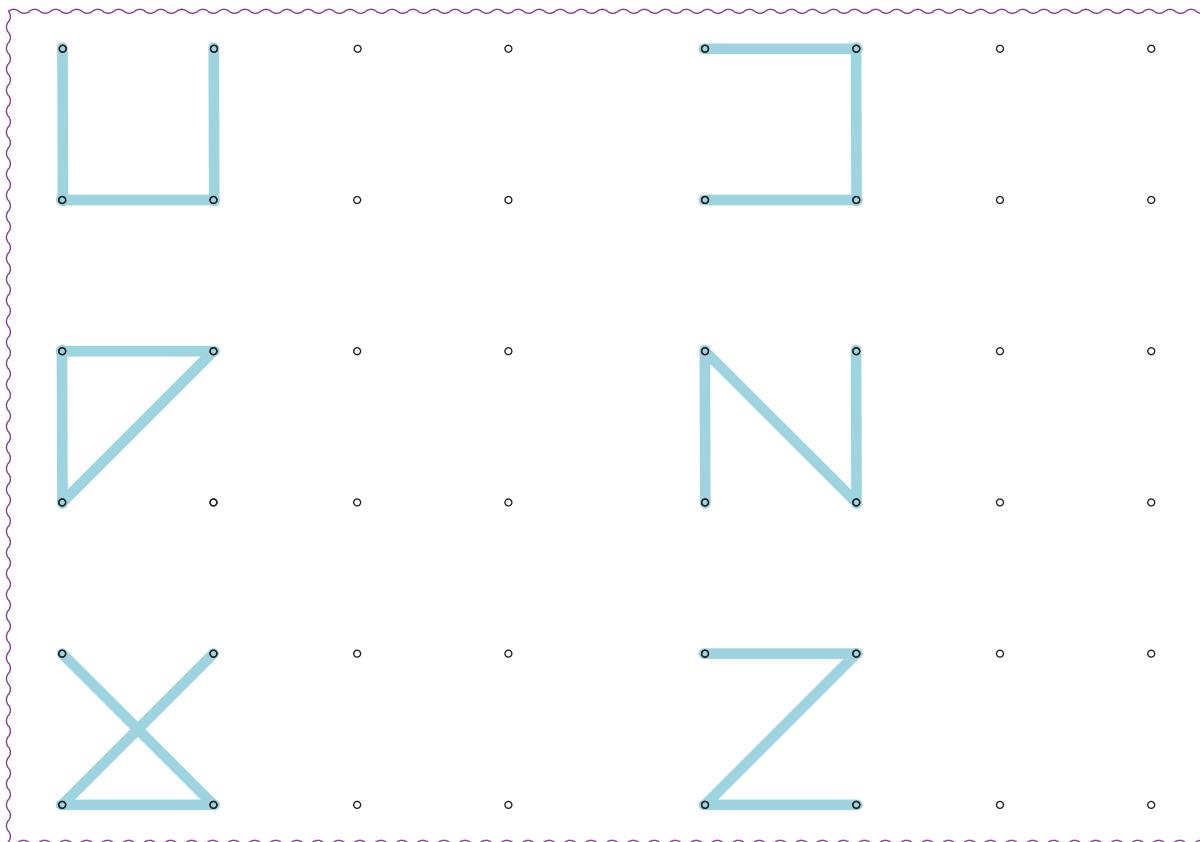
## Different types of Brainscribed tasks

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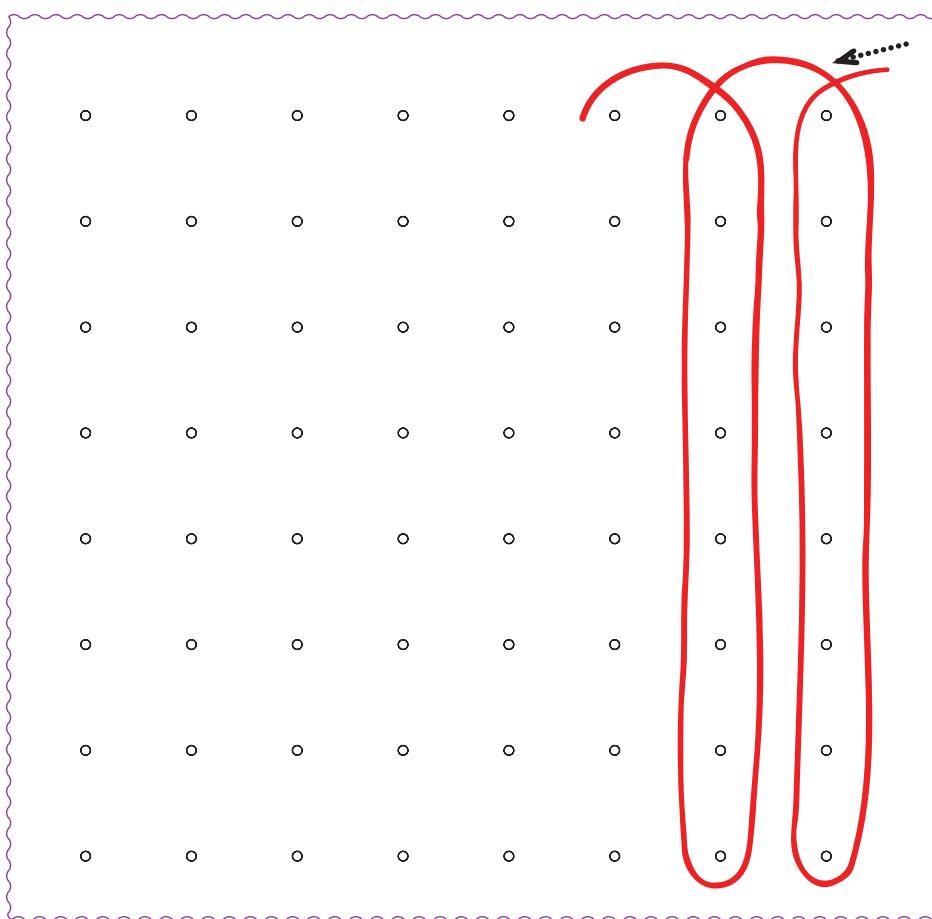
... SEARCHING AND TRACING PATHS ...



... CONNECTING DOTS ...



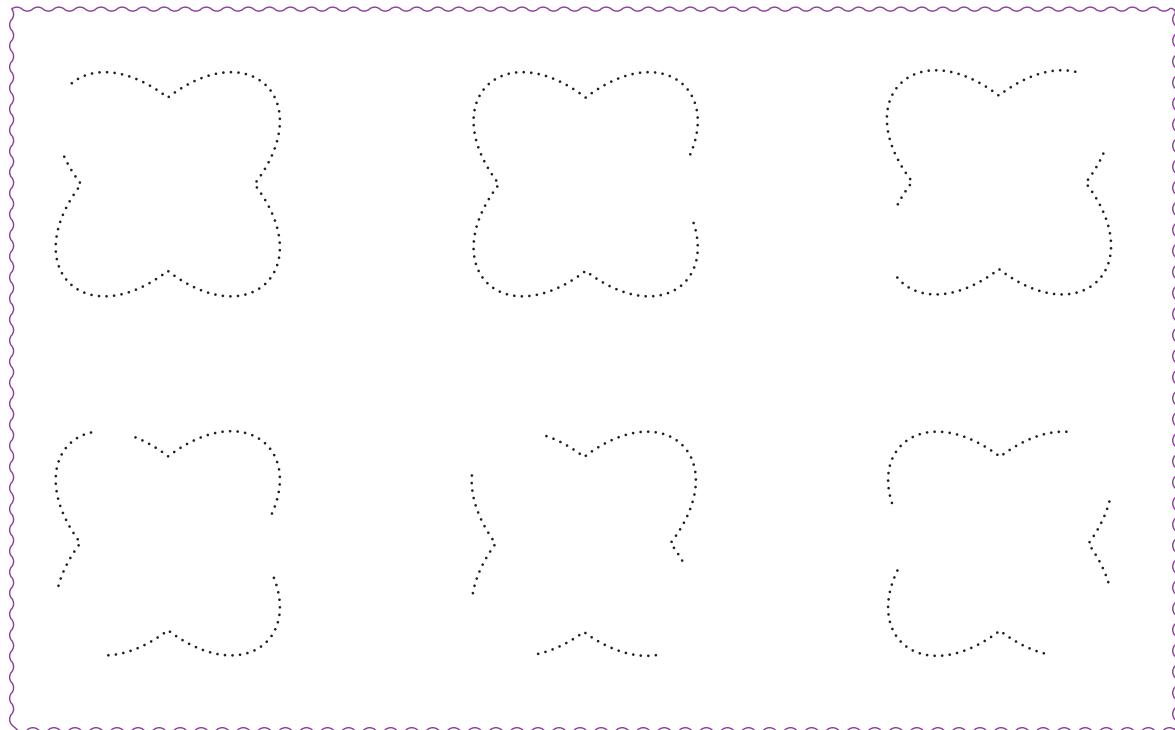
... DRAWING CURVES AND LOOPS IN A GRID...



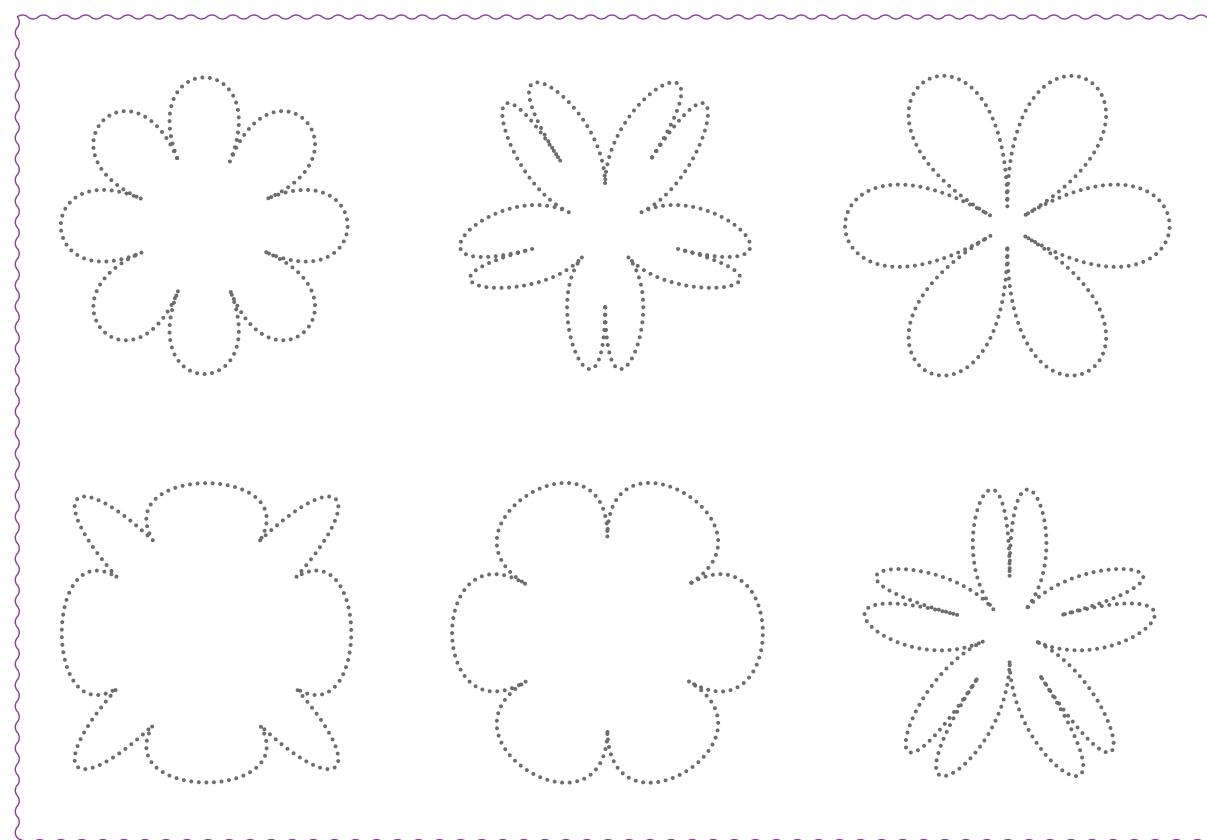
# Different types of Brainscribed tasks

## Different types of Brainscribed tasks

... SEARCHING AND COMPLETING SHAPES ...



... TRACING DIFFERENT SHAPES ...



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