

# CONNECTING EGGS MANUAL



## INTRODUCTION



Connecting eggs are a mathematical complement of the two logic eggs game, items 42125 and 42131. Thanks to the coloured connectors that allow to stack the eggs, this material allows children from 3 to 6 years old to make multiple and diversified activities:

- Sensory fine motor activities (manual abilities, observation...)
- Counting activities (from 1 to 10...)
- Construction and complement of the number
- Logic and reasoning activities (alternances, comparisons of qualitative criteria, board games...)
- Geometry activities (Topology, space perception, symmetry).
- Language activities (vocabulary, expression...)

On each sheet you find indication of:

- suitable age to make that activity
- educational goals
- what you need
- how to play
- eventual extensions proposed

This file is accessible by free download.



# SUMMARY

**INTRODUCTION** p 2

**SUMMARY** p 3

## THE ACTIVITIES

### DISCOVERY ACTIVITIES

▪ Discovery of the material SHEET N°1 p 4

### SENSORY-FINE MOTOR ACTIVITIES

▪ Sorting by colour SHEET N °2 p 5  
▪ Sorting by colour: sheet to print SHEET N °3 p 6  
▪ Kim game SHEET N° 4 p 7  
▪ The intruder SHEET N° 5 p 8

### MATHS ACTIVITIES

▪ Decreasing, increasing sizes SHEET N°6 p 9  
▪ Sizes: sheet to print SHEET N°7 p 10  
▪ Alternations SHEET N°8 p 11  
▪ Alternations: sheet to print SHEET N°9 p 12  
▪ Complete up to 5 and 10 SHEET N°10 p 13  
▪ The complement to 10 SHEET N°11 p 14  
▪ The complement to 10: sheet to print SHEET N°12 P 15  
▪ Sheet to print SHEET N°13 P 16  
▪ Topology SHEET N°14 P 17  
▪ Simmetry SHEET N°15 p 18  
▪ Tic-tac-toe SHEET N°16 p 19  
▪ Board game: 5/5 SHEET N°17 p 20

## DISCOVERY OF THE MATERIAL



- AGE  
From 3 years

- EDUCATIONAL GOALS

Discover the material  
Practice the manual skills  
Language development

- WHAT YOU NEED

Surprise children by preparing two baskets: one filled with eggs of assorted colours and the other with connectors in 4 colours.

- HOW TO PLAY

In groups of 4 children

Let the children free manipulate the material without a precise instruction.

They will soon understand what the connectors are useful for.

Let the children stack the eggs: it's an exercise that requires manual precision to obtain a good balance of the eggs.

Compare the constructions of the different groups.

Ask each group to comment what they have done in order to learn to name the connectors and describe their realization. (Number and colours of the eggs and of the connectors).

"You cannot stack a large number of eggs without them falling": observe this with the children and tell them that this material may not be a construction game! What could it be used for?  
Let the children express themselves.

## SORTING BY COLOUR



- ETA'  
From 3 years

- EDUCATIONAL GOALS

Sorting by colour. Be able to name them  
Count and respect an instruction  
Practice the manual skill  
Language development

- WHAT YOU NEED

Place on a basket the same number of eggs and connectors in 4 colours.

- HOW TO PLAY

In groups of 4 children.

Instruction n° 1: ask the children to make some small towers of 2 eggs with the connectors of the same colour.

Compare their realizations and ask them to comment.

Instruction n° 2: ask the children to make some small towers of 3 eggs with the connectors of the same colour.

Compare their realizations and ask them to comment.

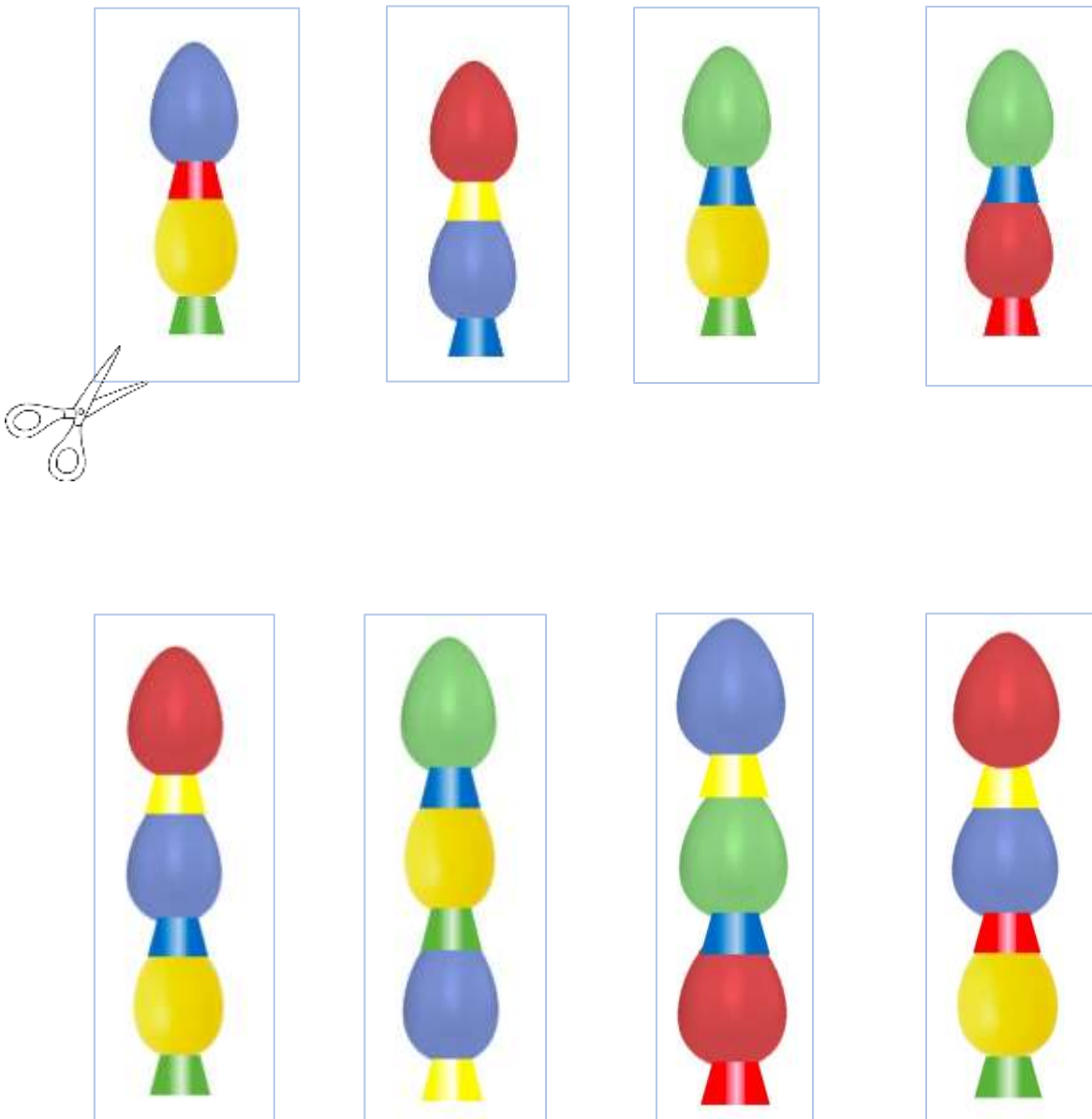
- EXTENTION

The instruction can be varied by multiplying the color combinations between the eggs and the connectors.

See the following sheet No. 3 for examples of illustrated instructions to distribute to children.

**SORTING LABELS**

Some examples of instructions to print and give to children.



KIM GAME



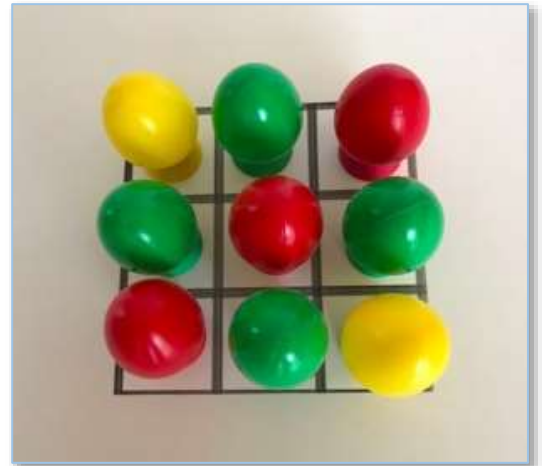
- **AGE**  
From 4 years
- **EDUCATIONAL GOALS**  
Observation and discrimination improvement  
Visual memory improvement  
Learning colors  
Language development
- **WHAT YOU NEED**  
Place on a table 3 eggs of different colour on the correspondent connector.

**HOW TO PLAY**

In groups of 4 or 6 children.  
Ask children to carefully look at the compositions, then ask them to turn back.  
Hide an egg and ask the children to look and find the missing egg.

- **EXTENTION**  
In groups of 4 or 6 children  
It is possible to increase the difficulty by:
  - adding more eggs
  - changing the colour of the egg from the colour of the connector
  - showing some towers with 2 eggs

THE INTRUDER



- **AGE**  
From 4 years
  
- **EDUCATIONAL GOALS**  
Observation and discrimination improvement  
Learning colors  
Language development
  
- **WHAT YOU NEED**  
Line up a tower of 6 eggs on their connectors in the same color (see photo). Provide only one color difference: either an egg or, more difficult, a connector.
  
- **HOW TO PLAY**  
In groups of 4 or 6 children  
Ask the children to carefully look at the three compositions and find the intruder.
  
- **EXTENTION**  
In groups of 4 or 6 children.  
It is possible to increase the difficulty by:
  - adding more eggs
  - increasing the number of intruders.



**DECREASING, INCREASING SIZES**

- AGE

From 4 years

- EDUCATIONAL GOALS

Approach the notion of increasing and decreasing number through the notion of size: "big", "medium", "small".

Observation development

Manual skills improvement

- WHAT YOU NEED

Align a tower of 1 egg on 1 connector, a tower of 2 eggs on 2 connectors and a tower of 3 eggs on 3 connectors. Initially the colour has to be identical so that the size of the towers is more easily identifiable visually.

- HOW TO PLAY

In groups from 4 to 6 children

1: Ask the children to show the smaller tower, the taller tower, and give a name for the tower that is neither the smallest nor the largest: the "medium".

2: Ask the children to build their own tower: a small one, a medium one and a big one.

Check and promote discussion.

- EXTENTION

In groups from 4 to 6 children

1: ask the children to build 3 towers, from the biggest to the smallest and 3 towers from the smallest to the biggest.

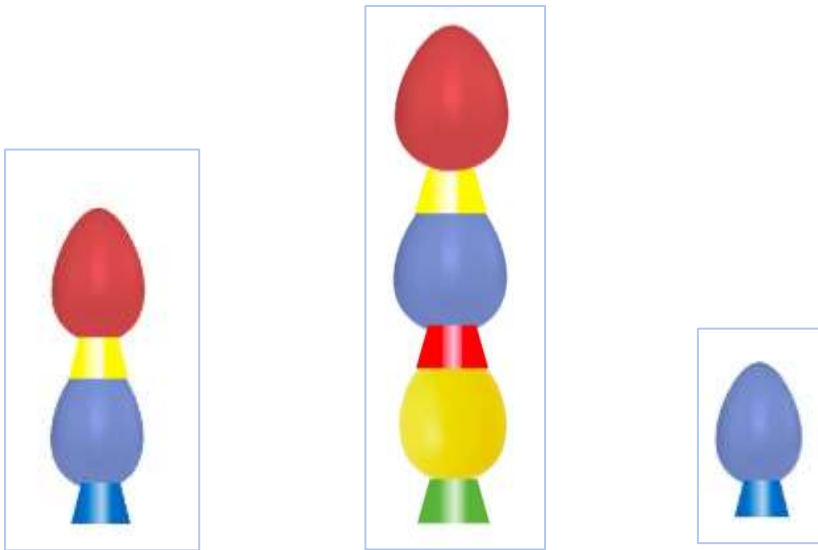
Check with them and promote discussion.

2: For older children: print and distribute sheet n° 7

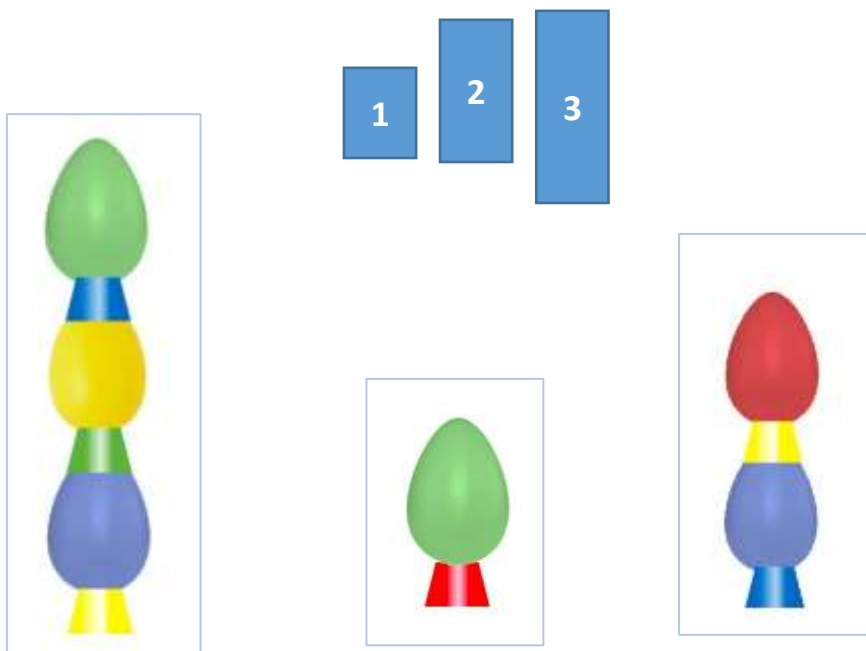
**BIG, MEDIUM, SMALL**

Some instructions to be printed and distributed to children

- Circle in red the big tower  
In green the big tower  
in blue the medium tower



- Sort the towers from the smallest to the biggest matching them to the correspondent number:



## ALTERNATIONS



- **AGE**  
From 4 years.
- **EDUCATIONAL GOALS**  
Observation development  
Reasoning  
Be able to identify and continue a two-term alternation.  
Manual skills improvement  
Développer son langage  
Language improvement
- **WHAT YOU NEED**  
Prepare a simple alternation: pairs egg-connector of the same colour.
- **HOW TO PLAY**  
In groups of 4 children  
Ask the children to continue the alternation.  
Verify with them. Promote the discussion describing what they have done.
- **EXTENTION**  
Make one or more grids of 10 squares on a cardboard. Square dimensions 5 cm x 5 cm. (See sheet N°9).  
According to the children's age, it will be possible to vary the alternances, increasing their difficulty by:
  - Combining the colour of the eggs and of the connectors
  - Offering the alternations of 3 or 4 terms
  - Offering towers of 2 or 3 eggs.
 Check with them and promote discussion.

**ALTERNATIONS**

Some instructions to be printed and distributed to children so that they can understand the concept of alternations.



## COUNT UP TO 5 AND UP TO 10



- AGE  
From 4/5 years
- EDUCATIONAL GOALS
  1. Introducing the concept of quantity and numerical order: count up to 5 and up to 10.
  2. Language development
- WHAT YOU NEED  
Make one or more grids with 10 squares on a cardboard paper. Square dimensions 5 cm x 5 cm.  
Prepare two baskets, the first one filled with eggs, the other filled with connectors in all colours.
- HOW TO PLAY  
In groups of 4 up to 6 children  
Two possible ways to play:
  3. Ask children to fill a grid of 5 squares in with two eggs and two connectors in each square without specifying the colour.  
After that, ask to count the eggs. Some kids will count spontaneously 5 eggs, others 10 eggs. Collect comments and discuss with children
  4. Ask the children to fill a grid in order to obtain 10 eggs, without mentioning the connectors. They will have to count before, during and after their action.  
Ask children to describe what they have done and how they achieved the result.
- EXTENTION  
For the older ones, we can point out that we used 5 boxes with 2 eggs in each box to obtain 10 eggs.

## LE COMPLEMENT A 10



- AGE  
From 5 years.

- EDUCATIONAL GOALS

Decode an image

Learn to count up to 5

Practice number complements

Become aware of the different constructions of the same number.

Observation and reasoning

Practice manual skills (cut, paste...)

- WHAT YOU NEED

Make one or more grids with 10 squares on a cardboard paper. Square dimensions 5 cm x 5 cm.

Prepare a composition of 8 eggs (see picture). A regularity of the colors makes the identification simpler at the beginning.

- HOW TO PLAY

In groups of 4 up to 6 children

Ask children to fill the grid in to obtain 10 eggs. How many eggs have they add?

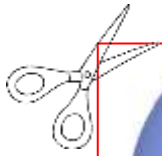
Check with them and ask to describe their action.

- EXTENTION

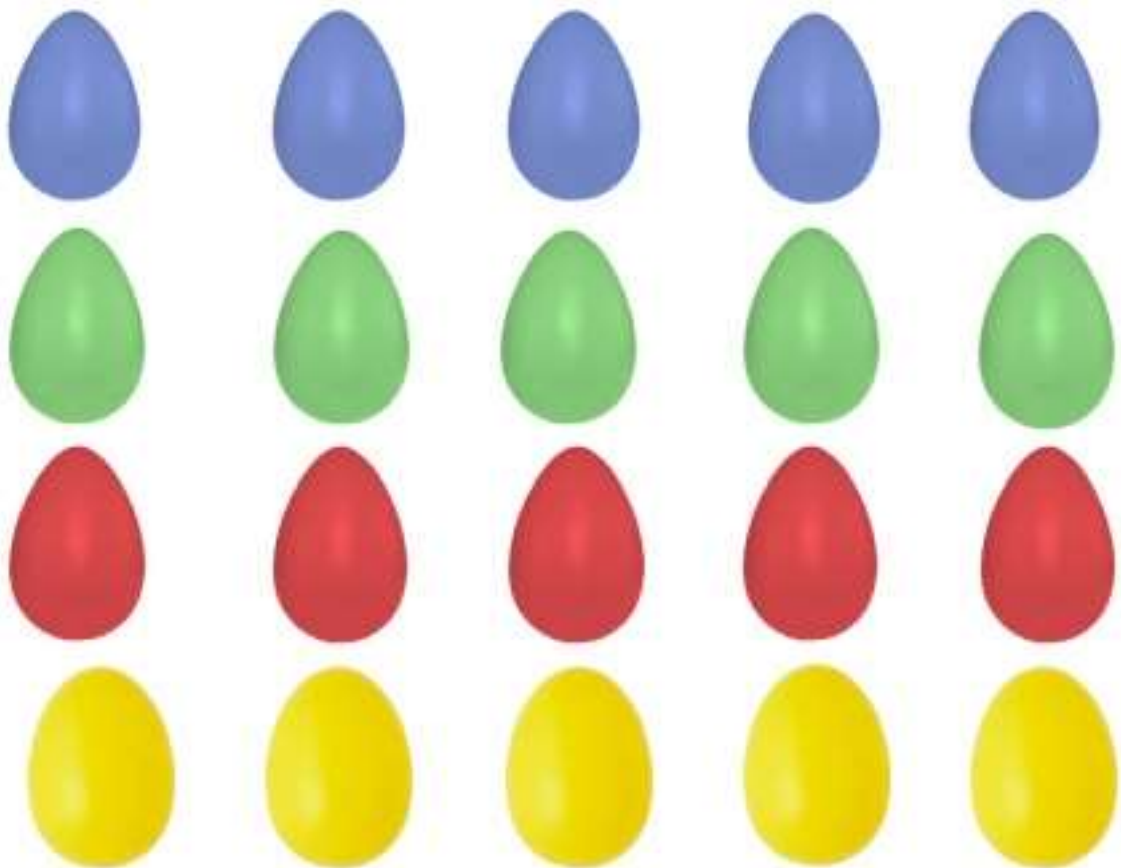
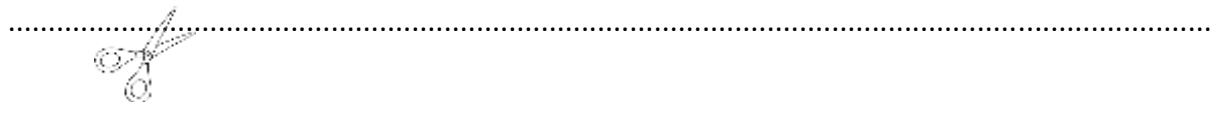
We can formalize the lived action of the children by offering them instruction sheets to print. (Sheet N ° 12). Children will cut out and glue the eggs to complete their worksheet.

COMPLEMENTS TO 10

Some examples to print, cut out and distribute to children.



COMPLEMENTS TO 10



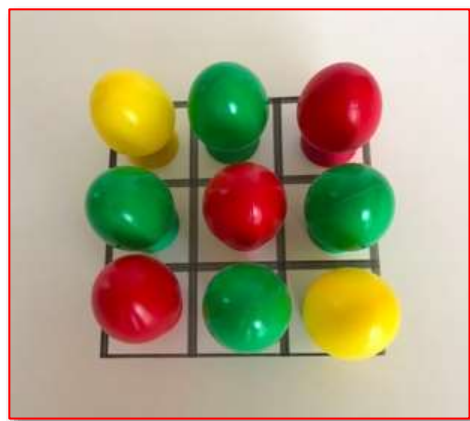


## TOPOLOGY



- AGE  
From 5 years
- EDUCATIONAL GOALS  
Space perception  
Learning the prepositions of location (In front of, behind, in the middle).  
Language development  
Practice manual skills
- WHAT YOU NEED  
Make one or more grids with 9 squares on a cardboard paper (15x15 cm). Square dimensions 5 cm x 5 cm.  
Cover the grid with eggs of indifferent colors but reserving a color for a tower of 2 eggs, red for example.  
Place the tower in a remarkable place: in the middle, at the right corner, at the left corner ...
- HOW TO PLAY  
In groups of 4 up to 6 children.  
Place the children in a line so that the composition is **in front of them**.  
Ask them to say where the red tower is.  
Collect the answers and specify the position of the tower, even if they are not yet old enough to use the concepts of right or left: in the middle, in front, in the corner behind ...
- EXTENTION  
Individually  
Distribute a 9-square grid to each child. Ask them to cover the grid with eggs whose color (s) can be imposed and ask to place a tower of two eggs in a specific position on the grid: in the middle, in front, behind, on the side.  
Check, collect comments and adjust responses.

## SYMMETRY



- AGE

From 5 years

- EDUCATIONAL GOALS

Introduce the concept of symmetry

Language development

Practice manual skills

- WHAT YOU NEED

Prepare one or more grids of 5, 10 and 9 squares on a cardboard paper. Square dimensions: 5 cm x 5 cm.

Place half symmetry on each chosen grid, with a tower of stuck eggs.

- HOW TO PLAY

In groups of 4 up to 6 children.

Place the children in front of one of the grids and ask them to complete. The aim is that the two halves of the grid are 'the same'.

Collect questions and comments. Help them if necessary.

- EXTENSION

The symmetry proposals can be infinitely varied: horizontal, vertical, diagonal ... and the number of overlays of eggs.

## TIC-TAC-TOE



- AGE

From 5 years

- EDUCATIONAL GOALS

Learn to play together

Understand and respect a game rule

Strategy

Observation

Language development

- WHAT YOU NEED

Make one or more grids with 9 squares on a cardboard paper (15x15 cm). Square dimensions 5 cm x 5 cm.

Prepare 3 eggs of the same colour for each child.

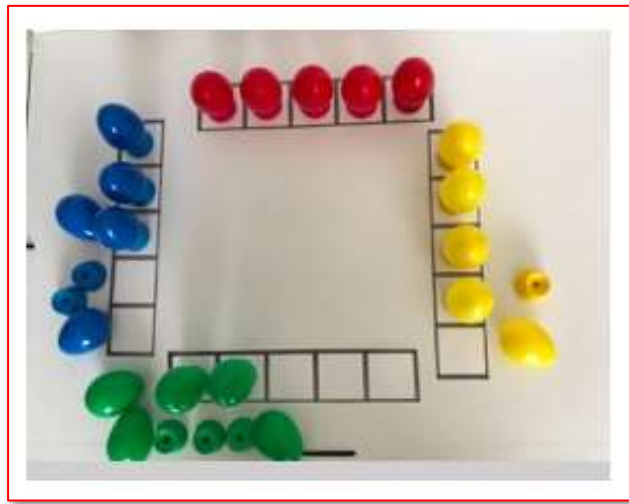
- HOW TO PLAY

In groups of 3 children

Explain the game rules: the first 3 eggs must be aligned, either on a row, or on a column, or diagonally ("Across"). Be careful, you must observe what others do so that they do not win before you! The first player that lines up three eggs is the winner!

- EXTENTION

If several groups play at the same time, we can organize a small tournament with the winners!

**BOARD GAME: 5/5**

- AGE

From 5 years

- EDUCATIONAL GOALS

Learn to play together

Understand and respect a game rule

Be able to count up to 5

Read and use a colour dice and a number dice

Observation

Language development

- WHAT YOU NEED

Make 4 grids with 10 squares on a cardboard paper (15x15 cm). Square dimensions 5 cm x 5 cm.

Give 5 eggs per colour to each child.

2 dices: a colour dice and a number dice 1-3. If you do not have this type of dice, you can use ordinary dice by sticking stickers on the unused faces.

- HOW TO PLAY

For 4 children.

Distribute a grid and 5 eggs of the same colour to each child.

The children take turns rolling the two dices and placing their eggs as indicated by the dice. If the color does not match that of their eggs, the children skip their turn.

The first player that fills its line is the winner.

- EXTENTION

We can propose a game with 10 eggs, by distributing either two grids of 5 squares, or a grid of 5 squares with stacking eggs.