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Home > Constructive Triangles

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Product ID:
SE130
Recommended Age:
18-30 Months [2]

## Catalog:

Sensorial [3]
\$179.99

Quantity * 1

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## Tabs

## Product Description

The constructive triangles exercise consists of a set of 5 boxes that contain 2 rectangular, 1 triangular and 1 large hexagonal and 1 small hexagonal boxes. Each box contains triangles of different sizes, dimensions and colors. The constructive triangles are used to help the child understand and realize and be aware of the shape, size and names of geometric cabinet, so that he/ she can verbally express the ideas.

## Purpose

- To further develop the child's exploration of the Equilateral angle.
- To prepare the child for geometry to show that rectilinear plane figures are composed of triangles
- To prepare the child for understanding the concept of equivalence and it's application in finding the area of plane figures
- To show the child that by joining together different triangles quadrilaterals are formed
- To help the child discover the function of a triangle as a constructor
- To show the child that rectilinear plane figures are composed of triangles.
- To prepare the child for understanding the concept of equivalence and it's application in finding the area of plane figures


## Exercise

## First Rectangular Box

- Demonstrate the exercise by first bringing the First Rectangular Box to the working mat or table
- Remove three pairs of identical triangles and place them randomly and show the child how to handle the triangle.
- Isolate any one triangle and pair it by placing it with black lines facing and then slowly bring them together
- Repeat the exercise with the other two pairs of triangle.
- After joining the pairs mix them and invite the child to repeat.
- Gradually introduce more triangles to the child as she works till she has handled each pair


## The Second Rectangular Box (Blue Triangles)

- Demonstrate the exercise by first inviting the children to gather around you and by bringing the Second Rectangular Box to the working mat or table
- Remove a pair of identical triangles and place them randomly on the mat
- Show the child how to join them along any side
- Hold one triangle using your left index finger and slide it slowly the other triangle against the triangle on the left hand.
- Allow the child to see the new shape formed and ask the child to identify it.
- Continue moving along all sides until you reach the original position.
- Repeat the exercise with the other pairs one at a time
- In the second part of the exercise, remove a paid of identical triangles and place them randomly on the mat, adjacent to each other.
- Encourage the child to flip one triangle over and join it with it's identical pair to see a new shape
- Now, slide the triangle to make other figures.


## Triangular Box

- Bring the Triangular Box to the working mat or table
- Allow the child to remove all of the triangles and place them randomly on the mat.
- Isolate the grey and green triangle and match them along the black lines.
- Place the green triangle below the grey triangle as the child observes pairing
- Show the child how compare and verification of equivalences of green triangle over grey triangle
- Similarly, follow the procedure for red and yellow triangles
- Gradually mix the triangles and invite the child to repeat the exercise in front of you once so that you can correct an error if a child makes one.
- Encourage the child to do the activity individually.


## Large Hexagonal Box

- First, bring the Large Hexagonal Box to the working mat
- Now, ask the child to remove all of the triangles and place them randomly on the mat
- Make a red rhombus, a grey parallelogram and a yellow hexagon by following steps;
- First isolate the two red triangles
- Join them along the black lines to form a rhombus
- Now, isolate the two grey triangles, and join them along the black lines to form a parallelogram.
- And lastly, place the large yellow equilateral triangle in front of the child and encourage the child to look for three yellow obtuse-angled triangles
- Now, isolate them and match to form a hexagon.


## Small Hexagonal Box

- Demonstrate by first bringing the Small Hexagonal Box to the working mat and place them according to their color and size
- Join them along their respective black lines to form various shapes of red rhombus, grey hexagon and green trapezium
- Now, demonstrate and show the child how to superimpose the red rhombus and, in turn, green trapezium onto the onto the grey hexagon and remove.
- Encourage the child to do the activity individually and monitor the activity and assist the child when it is necessary.


## Related Exercises

As discussed in the previous activity under geometric presentation tray, the pre related activities are napkin exercises, where the guiding lines help the child to fold the napkins in to different shapes. While doing so the child learns in how many varied ways triangles can construct square. Constructive triangle boxes are higher exercises compared to napkin folding with the idea of different shapes formed by different other shapes.

This can be further reinforced through tessellation boxes where, child works with all possible shapes to make his own creative pattern. With the concrete understanding of constructive triangles the child is able to logically connect with the shapes and the number of sides, which helps the child in imagination and creative work.

Product Maintenance

- Store in dry and room temperature.
- Do not expose to direct sunlight.
- Care should be taken upon the number of pieces in the box.
- Any missing piece, the specific shape cannot be constructed

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## Product Demonstration Video

## Source URL:https://www.montessorimaterials.net/sensorial/constructive-triangles

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