EXPLORING SYMMETRY
LEARNING PACK

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Instructions:

Draw the Line Symmetry Cards – Print on cardstock, laminate for durability, and cut along guidelines. Provide child a dry erase marker and have them draw the line of symmetry for each shape.

Complete the Image Pattern Blocks – Print on cardstock and laminate for durability. Provide child pattern blocks to create the mirror image of each pattern. They may use the blank page to create their own symmetrical pattern.

Symmetrical VS Not Symmetrical Sort – Print on cardstock, laminate for durability, and cut along guidelines. Have child first short the shapes by whether or not it is a line of symmetry once the child can do this have them sort the images by whether or not it is symmetrical.

Play Dough Mats – Print on cardstock and laminate for durability. Using play dough have the child form the missing half of each shape. Point out that it is split on the line of symmetry and that the line of symmetry forms the shape into two equal halves.

Butterflies – Butterflies are the perfect natural example of symmetry. Print on cardstock and laminate for durability. You may either cut the butterflies out or leave them whole. Provide a magnifying glass for added fun and have the child explore the butterflies noticing how each side is exactly the same. You may also have them use a dry erase marker to draw the line of symmetry if you like.

Complete the Picture – Have the child use pencil, pen, crayon or markers to draw the missing half of the picture. Have them try to make the two sides look as close to the same as possible. Child may use the blank graph to either draw their own symmetrical picture OR draw half of a picture for someone else to complete.

How Many Lines of Symmetry – Have the child use pencil, pen, crayon, or markers to draw as many lines of symmetry as they can find for each shape, then count the number they find and write it below.
Resources & Activities

**Suggested Books:**
- Seeing Symmetry
- Equal Shmequal
- Let’s Fly a Kite

**Suggested Hands on Material:**
- Pattern Blocks
- Magic Symmetry Kit

**Suggested Activities:**

2D Symmetry: Use a piece of paper and ask the child to fold it in half along the line of symmetry. Ask the child if there are any other lines of symmetry and have them try to fold it in other directions to test their theory. You can also cut the paper into other shapes such as a square, circle, or triangle and have them repeat the same steps with each. You can also alternatively have the child cut the lines of symmetry after they have folded it to practice cutting skills.

3D Symmetry: Use blocks to demonstrate symmetry on 3D objects. Supply the child rubber bands and have them use them to show the line of symmetry on the blocks. They may use multiple rubber bands on the same block to demonstrate the different lines of symmetry.

Symmetry in Art: Use a piece of paper and have the child squirt paint into the middle. Fold the paper in half to create a symmetrical piece of art. Afterwards explore some pieces of art and look for symmetry within them.

Symmetry in nature: Use leaves to explore symmetry in nature, some will be symmetrical and some will not. Have the child sort them into the appropriate categories. If possible go on a nature walk together and pint out other items in nature that are symmetrical.
Draw the Line of Symmetry
Symmetrical

Not Symmetrical
Draw the missing half of the goat.
Draw the missing half of the elephant.
How many lines of symmetry can you find for each shape?