

Pre-Kindergarten

Shapes, Forms, and Colors

NYS Standard 4 (Science): Physical Setting (PS)

- ✓ **Key Idea 3: Matter is made up of a particle whose properties determine the observable characteristics of matter and its reactivity.**

NYS Standard 4(Science): Living Environment (LE)

- ✓ **Key Idea 3: Individual organisms and species change over time.**

Major Understandings	Learning Experience/Objectives	Supporting Terms
<p>PS 3.1c Objects have properties that can be observed, described, and/or measured: length, width, volume, size, shape, mass or weight, temperature, flexibility, reflectiveness of light.</p> <p>PS 3.1f Objects and/or materials can be sorted or classified according to their properties.</p>	<p>Getting Started: Students will use their background knowledge to contribute to a class discussion on shapes.</p> <p>Circles and Spheres: Students will identify circle and spheres shapes around the classroom and provide a description of a circle's and sphere's appearance.</p> <p>Squares and Cubes: Students will identify square and cubes shapes around the classroom and create a model of a square and a cube.</p> <p>Rectangles: Students will describe the attributes of a rectangle in comparison to a square and find samples of rectangles around their classroom.</p> <p>Triangles and Pyramids: Students will describe the attributes of a triangle and pyramid and will create a model of a triangle and a pyramid.</p> <p>Review of Shapes: Students will identify and describe a circle, square, triangle, and rectangle using their sense of touch and create patterns with shape beads.</p> <p>Other Shapes: Students will describe the attributes of five new shapes and create a shape book using pictures from magazines and newspapers.</p> <p>Different Temperatures-Different Colors: Students will measure the temperature of thermometers encased in envelopes of different colors and use the data to explain that darker colors absorb light and lighter colors reflect light.</p>	<p>shapes, attributes, circle, curved, straight, corner, sphere, square, corner, size, cube, measure, rectangle, side, triangle, pattern, hexagon, trapezoid, rhombus, ellipse, pentagon, booklet, temperature, thermometer</p>
<p>PS 3.1b Matter has properties (color, hardness, odor, sound, taste, etc.) that can be observed through the senses.</p> <p>PS 3.1f Objects and / or materials can be sorted or classified according to their properties.</p> <p>LE 3.1c In order to survive in their environment, plants and animals must be adapted to that environment.</p> <ul style="list-style-type: none"> • Animal adaptations include coloration for warning or attraction, camouflage 	<p>Colors of the Classroom: Students will identify various colors around the classroom and create patterns/classify objects of various colors.</p> <p>Seasons of Color: Students will observe picture of the various seasons to pick out colors found in nature during that season and will describe how animals camouflage in nature due to their color.</p> <p>Color Mixing: Students will identify the primary colors and mix colors together to create secondary colors on the color wheel.</p> <p>Color Tints: Students will describe and explore the creation of colors of different tint.</p> <p>Shades of Color: Students will describe and explore the creation of color of different shades.</p> <p>Helpful Colors: Students will describe the shapes and colors of traffic signs and identify the similarities and differences between the traffic signs.</p> <p>Color Booklet: Students will review what they learned about the various tints and shades of color and create a booklet displaying their knowledge.</p>	<p>color, rainbow, season, camouflage, primary colors, secondary colors, chromatography, tint, shade, sign, yield, caution, booklet</p>