



**Infant & Toddler: Birth through 36 Months**

- Develop a sense of wonder for the natural world
- Provide opportunities to explore using all five senses
- Encourage fine and gross motor skills and movement through play

<b>S T E M</b>	<b>3.1 1.A.1/YT.A.1/OT.A.1 • Show interest in natural world/ explore + identify characteristics</b> On a Sensory Nature Walk stop to allow infants to touch + smell leaves/flowers/sticks		<b>3.2 I.A.1/YT.A.1/OT.A.1 • Explore/engage/describe objects with varying characteristics</b> Blow bubbles and let them fall on paper and have a bubble dance party	
	<b>3.1 I.A.9/YT.A.9/OT.A.9 • Participate in simple investigations</b> Use a flashlight to create shadows with toys and explore the room		<b>AL.3 I.C/YT.C • Use a variety of materials to create/ represent objects</b> Create STEM art with paint and footprints, cars or sponges	
	<b>AL.4 I.C/YT.C • Play with a variety of objects to determine outcomes/solve independently</b> Build towers and encourage stacking on top of mirrors		<b>2.3 I.A.1/YT.A.1/OT.A.1 • Explore/match/recognize and identify shapes</b> Provide balls, cylinders and a ramp and ask mobile children to retrieve them	
	<b>2.2 YT.A.1 • Sort manipulatives into sets</b> Dump out a bunch of pom poms or blocks and sort in bowls by color		<b>2.1 OT.A.2 • Count to tell the number of objects</b> Set a timer to find many objects of one shape children then count	
<b>Literacy</b>	<i>Goodnight Lab</i> by Chris Ferris	<i>Changes, Changes</i> by Pat Hutchins	<i>Build it Up and Knock it Down</i> by Tom Hunter	<i>Colors, Numbers, Shapes</i> by Priddy Books

Additional Activity Ideas

- Create smelly or textured art by adding kool-aid powder or shaving cream to finger paint
- Hide different numbers and shapes and go on a “Scavenger Hunt” to find them



**Pre-Kindergarten: Ages 3-5**

- Develop an inquisitive environment and scientific vocabulary
- Provide opportunities to ask questions and design investigations
- Encourage movement during routine math and science activities

<b>S</b>	<b>3.2 PK.A.3 • Notice change in matter</b> Take turns shaking cream in a jar to make butter and watch a How it's Made video	<b>3.1 PK.B.1 • Recognize and compare physical characteristics of living things</b> Compare Trees and Flowers in Science Journals or Clipboards on a Nature Walk			
<b>T</b>	<b>2.4 PK.A.1 • Describe and compare attributes of length and weight</b> Set up measuring stations around the room with rulers/scales	<b>3.1 PK.B.6 • Participate in simple investigations of physical characteristics to answer a question</b> Give each child a magnifying glass and a magnet to explore inside and out, list observations			
<b>E</b>	<b>3.1 PK.A.6 • Participate in simple investigations of matter to answer a question</b> Build Foil and Paper boats and test sink or float a baby pool outside	<b>2.3 PK.A.2 • Analyze, compare, create, and compose shapes</b> Draw a plan for a playdough and popsicle stick building then create			
<b>M</b>	<b>2.1 PK.A.1 • Know number names and the count sequence</b> Count knee-bends, toe touches, hops and other exercises	<b>2.4 PK.MP • Use mathematical processes when representing data</b> Make a weekly Weather Graph and go for a walk to gather data			
<b>Literacy</b>	<i>Flower Garden</i> by Eve Bunting	<i>See Inside How Things Work</i> by Conrad Mason	<i>One Grain of Rice</i> by Demi	<i>City Shapes</i> by Diana Murray	<i>The Sand Castle Contest</i> by Robert Munsch

Additional Activity Ideas

- Create butterfly symmetry art and observe hatching butterflies with a Live Butterfly Kit
- Add a Science Station with measuring tools, magnets, natural items, x-rays, paper and pencil, STEM books, gears...