

## Threes and Fours Weekly Lesson Plan

Week: May 17-21, 2021

Monthly Theme: We Build Buildings

Weekly Focus: Different Types of Bridges

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
<b>Morning Circle</b>	<b>Morning Circle</b>	<b>Morning Circle</b>	<b>Morning Circle</b>	<b>Morning Circle</b>
<p>Let's discuss bridges! Have you ever crossed a bridge? Where? Did you walk across or drive? A <b>Bridge</b> is a pathway build over or across an obstacle, like a river. <b>Arch Bridges</b> use an arch shape, like a rainbow, to hold the weight on the bridge.</p> <p><b>Literacy:</b> Bridges are for Crossing</p>	<p>Have you seen a <b>Truss bridge</b>? These bridges have frames made up of triangles, which help spread the weight on the bridge evenly. Do you think another shape would work? Let's see if a square would be as stable as a triangle!</p>	<p>What is a <b>Beam Bridge</b>? Beam bridges are the simplest structure supported by something on both ends. It can look like a log or plank that goes across a river.</p> <p><b>Literacy:</b> How do Bridges not fall down?</p>	<p>Does our city have <b>Suspension Bridges</b>? These bridges have cables that hang from overhead to support the roadway. Suspension bridges can run longer than any other bridge form. We will discuss what the cables are made of and if it matters how many cables there are on the bridge. We will also look at pictures of real Suspension Bridges around the world.</p> <p><b>Literacy:</b> Twenty-one Elephants</p>	<p>What in the world is a <b>Draw Bridge</b>? A draw bridge is a movable bridge that typically moves to let ships and boats that are too tall to fit under the bridge. We will discuss where we might find a movable bridge and explore how they work as well as view famous draw bridges.</p> <p><b>Literacy:</b> The Bridge is Up</p> <p><b>Music and Movement:</b> London Bridge</p>
<b>Excursion</b>	<b>Excursion</b>	<b>Excursion</b>	<b>Excursion</b>	<b>Excursion</b>
City Walk	Smithsonian Garden	Mall Play	Butterfly Garden/Bridge	John Marshall Park
<b>Morning Activity</b>	<b>Morning Activity</b>	<b>Morning Activity</b>	<b>Morning Activity</b>	<b>Morning Activity</b>
<p><b>S.T.E.M.:</b> Explain matters: Describe how tension and compression are critical to bridge design. Compare and contrast: are these bridges the same or different</p> <p><b>Art:</b> We will draw a sketch of what comes to mind when we think of bridges.</p>	<p><b>S.T.E.M.:</b> Design and create model truss bridges using plastic drinking straws and tape as their construction materials. Our goal is to build the strongest bridge with a pattern of the children's own design. We will experiment with different geometric shapes and determine how shapes affect the strength of materials.</p>	<p><b>S.T.E.M.:</b> Can you build a bridge that holds 100 pennies? Teachers will give children a piece of paper and two books, helping the children to fold the paper. Then we will test how many pennies we can put on the paper before the bridge collapses. We will count the total pennies that everyone's bridge is able to hold.</p>	<p><b>Math:</b> Construction truck Math race- The children will be given 10 magna-tiles, a construction truck, and a dice. The children will roll the dice and put that number of magna-tiles down to build a path for the truck. The first to get the construction truck to the tenth tile wins.</p>	<p><b>Gross Motor:</b> Maze of Numbers- The children will navigate through a maze of numbers by stepping in sequential order on the numbers that have been drawn on the ground, counting as they go.</p> <p><b>Literacy/Art:</b> We will create props and put on a puppet show performing Billy Goats Gruff</p>
<b>Afternoon Activity</b>	<b>Afternoon Activity</b>	<b>Afternoon Activity</b>	<b>Afternoon Activity</b>	<b>Afternoon Activity</b>
<p><b>Gross Motor:</b> Bean Bag Challenge- put the beanbag on your <u>head</u> and <u>walk</u> put the beanbag on your <u>back</u> and <u>crawl</u> put the beanbag on your <u>foot</u> and <u>walk</u>, put the beanbag between your <u>knees</u> and <u>jump</u>, put the beanbag on your <u>shoulder</u> and <u>walk backwards</u>.</p>	<p><b>Gross Motor:</b> Over/Under the bridge obstacle course- the children will use various movements (jumping, skipping, walking) to get to the bridge once at the bridges they will go over or under the bridge. For an added challenge the children will balance a bean bag on their head.</p>	<p><b>Art:</b> Craft Stick Bridge. Children will create a bridge of their own design out of craft sticks.</p>	<p><b>Art:</b> Block impression painted bridge-The children will use blocks, paint, and paper to make an impression bridge of their own design.</p>	<p><b>S.T.E.M. -</b> The children will use various materials (popsicle sticks, cups, straws, clothes pins etc.) to create their own bridges.</p>