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**Summer Bridges: Incoming Geometry Choice Board**

This summer, your child can continue building a strong foundation in mathematics by completing a Math Choice Board. He or she will also have the opportunity to earn ten extra credit points on the first math test of the 2026-2027 school year.

**All completed choice board activities are due to your child's math teacher on Thursday, September 10, 2026.**

***Directions:*** Complete any ***three*** boxes ***in a row*** (horizontally, vertically, or diagonally).  
Be sure to keep all of your work to hand in to your new math teacher in September.

<p><b>Lemonade Stand Equation</b></p> <p>You earn \$2.50 per cup of lemonade and spend \$8 total on supplies. Write an equation for your profit <math>p</math> after selling <math>c</math> cups. Solve for how many cups to break even. Then find profit for 10, 20, and 30 cups.</p>	<p><b>Fireworks Height Function</b></p> <p>A firework launches and follows <math>h(t) = -16t^2 + 80t</math>. Using pencil and paper, make a table of values for <math>t = 0</math> to 5 seconds. Plot the points on graph paper and sketch the parabola. Label the maximum height.</p>	<p><b>Sunscreen Exponential</b></p> <p>SPF 50 sunscreen retains about 80% effectiveness per hour of direct sun. Write an exponential function. Make a table for hours 0-5. Graph it on paper and describe whether this is growth or decay and why.</p>
<p><b>Seashells Sequences</b></p> <p>Create a visual pattern using seashells (real or hand-drawn). The first row should have 3 items, the second should have 7, and the third should have 11. Write the explicit formula for the <math>n^{\text{th}}</math> row.</p>	<p><b>Heat Wave Statistics</b></p> <p>Track the high temperatures for 10 summer days. Find the mean, median, range, and create a box plot or histogram by hand. Write 3 observations about the data.</p>	<p><b>The Perfect Patio</b></p> <p>You are designing a rectangular stone patio. The length is <math>x + 5</math> and the width is <math>x + 2</math>. Draw the rectangle and label the sides. Write a polynomial expression for the total area. If <math>x = 4</math> feet, what is the actual square footage of your patio?</p>
<p><b>Beach Zone Inequalities</b></p> <p>A lifeguard is creating a swim safety zone. Write &amp; graph a system of at least 2 linear inequalities that models where swimmers are allowed to be. Your graph should include a shaded solution region and labeled boundary lines. Then describe 3 points that would be safe places for swimmers and 2 points that would not be.</p>	<p><b>Summer Functions</b></p> <p>Create 3 different summer-themed functions (such as the cost of snow cones, bike rental fees, or amusement park tickets). For each function, include: a table, a graph, and an equation. Then describe whether each function is linear or nonlinear and explain how you know.</p>	<p><b>Picnic System</b></p> <p>You have two stacks of supplies for a picnic. Stack A has 3 spoons and 2 forks and weighs a total of 17 units. Stack B has 2 spoons and 5 forks and weighs 26 units. Use a system of equations to solve for the weight of a single spoon and a single fork.</p>