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Week 5: Suggested Weekly Learning Activities for At Home Continuation of Learning

Subject Area:	Numeracy								
Big Idea:	N8, Reasoning, Problem Solving								
Plan/Instructions:	<p>Learning Activity: Three Block Towers</p> <p>This activity has students exploring shapes and colors. In this activity students investigate the combinations of ways they can make a tower with three different colored blocks. They then see how many different towers they can make with four different colored blocks. The many combinations of colored towers provide an authentic reason for students to find a way to keep track of and organize the ideas they collect. This task also helps students develop hand eye coordination and allows them to explore with cubes. Don't worry if students don't have blocks. They can use any three objects and explore all the different ways they can stack them.</p> <div style="text-align: center;">  </div> <p>Practice: Nim Game</p> <p>Place a small pile of 10-20 coins or other small objects between two players. Players take turns removing one or two coins from the pile and stating the number of objects remaining once the coins have been removed. You must take at least one coin on your turn, but you may not take more than two. Whoever takes the last coin is the winner.</p>								
Materials Needed:	<ul style="list-style-type: none"> • Paper and pencil • 10-20 coins, or other small objects such as beans or Legos 								
Source:	rich.maths.org/ , youcubed.org , www.solveemoji.com/ , mathforlove.org								
Additional Resources:	<p>Click here for additional information and a video explaining The Block Towers activity. https://www.youcubed.org/resources/three-block-towers-k-8-video/</p> <p>Greg Tang Math is a great website that has a lot of great games and puzzles. Many provide thinking and problem-solving skills. https://gregtangmath.com/index</p>								
Opportunities for Stretch:	<p>Once students have determined all the different ways they can stack 3 blocks, have them see if they can determine all the ways to stack 4 or even 5 blocks. See if they can explain how they know they have found all the different ways.</p> <p>Have students use their logic to solve the value in the last row.</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">  +  = 10 </td> <td style="text-align: center;">  +  = 10 </td> </tr> <tr> <td style="text-align: center;">  +  = 8 </td> <td style="text-align: center;">  -  = 1 </td> </tr> <tr> <td style="text-align: center;">  +  = 7 </td> <td style="text-align: center;">  -  = 2 </td> </tr> <tr> <td style="text-align: center;">  +  = ? </td> <td style="text-align: center;">  +  = ? </td> </tr> </table>	 +  = 10	 +  = 10	 +  = 8	 -  = 1	 +  = 7	 -  = 2	 +  = ?	 +  = ?
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