

STEM/Makerspace, Week 3 - (Santos)

Topic	Type	Monday 4/13	Tuesday 4/14	Wednesday, 4/15	Thursday, 4/16	Friday, 4/17
STEM	Offline	<h2>Music To Your Ears</h2> <p>Can you play a song with water?</p>		<h2>Marble Wall Run</h2> <p>Can you create a wall maze for a ball or marble to run through?</p>		
						
		<p>Materials:</p> <ul style="list-style-type: none"> •3-5 identical drinking glasses •1 plastic spoon •1 pitcher of water •1 set of measuring cups <p>Directions:</p> <ol style="list-style-type: none"> 1. Arrange the water glasses in a line and fill them up with varying amounts of water. Try to make the increments of water equal. (For example, start with 1/8 cup of water in the first one, then fill each succeeding glass so that it has 1/8 cup of water more than the previous glass in line: 1/8, 2/8, 3/8, 4/8, etc.) 2. Tap each glass with the plastic spoon and enjoy the sounds they make! 3. Challenge: Can you play "Hot Cross Buns" or "Mary Had a Little Lamb"? 4. Take a picture or video of you playing a song on your water instrument and tag us (@kaimiloaes) on Facebook and Instagram! We would love to listen to the wonderful music you create. <p>Question to think about:</p> <ul style="list-style-type: none"> •How does changing the amount of water in each glass affect the sounds that you hear? •You created a water xylophone! Do you know what a real xylophone looks like? Go & research it. 		<p>Materials:</p> <ul style="list-style-type: none"> •Cardboard rolls (paper towel rolls, toilet paper rolls, or wrapping paper rolls) •Painter's Tape •Marbles or small rolling objects like a small rubber ball •Scissors •Bowl or basket to catch your marbles or balls at the bottom <p>Directions:</p> <ol style="list-style-type: none"> 1. Find a clear wall space at home, sliding glass door, or an extra large flat cardboard box to mount your marble run onto. 2. Gather your cardboard rolls (toilet & paper towel rolls) and cut it lengthwise so that it is in half, right down the center. 3. Tape the highest tube at the top and work your way down the wall. Make sure it's what you can reach. 4. It's best to test the marble run as you go along. Marbles move fast and like to fly right out of the tubes if they're not positioned to catch speedy marbles. 5. Use the basket or bowl at the bottom of your marble run to catch your marbles or balls. 6. Hint: Pay attention to the angles and distances of the rolls that you tape up. 7. Take a picture or video of your marble run in action and tag us (@kaimiloaes) on Facebook and Instagram! We would love to see how your marble run works. <p>Questions to think about:</p> <ul style="list-style-type: none"> •How can you modify your marble run to make the marbles/balls roll slower? Or faster? •What other home objects can you use instead of cardboard rolls? 		
<p>Link: How to make a water xylophone</p>		<p>Link: TinkerLab-Marble Run</p>				