**Catapulting the Air Activity Worksheet**

**After construction on Popsicle Catapult, complete the Catapult Activity Worksheet**

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| **5-Part Plan Title:** | **Catapulting into the Air** |
| **Engineering Grand Challenge Covered:** | **Restore and Improve Urban Infrastructure** |
| **Fellow Contributor(s) / Group Number:** | **Ifeoma Anyansi** |
| **Grade Level(s):** | **Grade 7 (6-8)** |

1. Place 4 Popsicle sticks on each other. Use a rubber band to tightly secure them together.

2. With the last two Popsicle sticks, tie one end together with a rubber band.

3. Slide the bundle of 4 Popsicle sticks in between the two Popsicle sticks in step 2 in such a way that it makes a cross. Make sure you slide the bundle all the way in.

4. Next, secure the two bundles together by repeatedly criss-crossing a rubber band at the point in which they meet.

5. Put a mini-marshmallow at the end of the stick that is angled upwards into the air and launch

6. You can use a rubber band to secure spoon across the Popsicle stick to act as a “launching pad” for your projectile of choice.

1. Did your catapult successfully launch a marshmallow? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Measure the distance your marshmallow traveled and record here: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Measure the height your marshmallow traveled and record here: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. How could you have made your marshmallow catapult better? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_