



#FontanaTogether

PENDULUM PAINTING

This activity shows that art is anywhere and everywhere! This fun painting activity will be done using recycled materials. Learn about the forces of motion and gravity with a new painting technique. By exchanging the paintbrush for a swinging pendulum! Christian Huygens was a Dutch Mathematician who invented a clock in 1656 powered by motion using well a pendulum. A pendulum is a weight suspended at a pivot or center point.

WHAT IS A PENDULUM?

It is a fixed object hung from a point so it can swing freely back and forth due to the force of gravity. For example, a swing, it moves back due to gravity, the pendulum act exactly like the swing!



MATERIALS

- Washable Paint
- String
- 2 Cardboard box tubes
- 1 paper towel roll
- Small paper cup
- Water
- Strong ape/ packing tape
- Card stock
- Glue

INSTRUCTIONS

1. Glue your paper towel roll across two cardboard polls, evenly.
2. Secure pole to the table with strong tape or packing tape so the poles won't wobble or fall when swinging your paint bucket.
3. Take your paper cup, add 3 holes. 2 on the side, across from each other and 1 at the bottom.
4. Add string from hole to the other side, then through the top to make a V formation, and tie.
5. Take the long end of the string and tie it around the paper towel tube.



6. Add a piece of paper under the small paper cup.
7. Add paint by color into the small unused paper cup. Add water to thin it out.



8. Pour paint into paint the small paper bucket. Swing it around hand watch the paint drip in motion. How do the patterns change depending on where you swing it?



MODIFICATIONS/ VARIATIONS:

- Experiment the paint with water! If you want the paint to come out the hole faster, add more water to the paint. If you want the paint to come out the hole slower, add less or no water to the paint.
- If you don't have all the materials, try to create your own way of doing pendulum art.