



Lisa Preston

PENDULUM PAINTING

PHYSICAL SCIENCE

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DESCRIPTION

Create an abstract painting by experimenting with the science of a pendulum. Using household materials, set up your own pendulum with a purpose. Enjoy the weighted design created by your unique contraption and delight in what it might become.

DISCUSSION

- How would a different sized hole (larger or smaller) change the painting?
- Why does the starting point (when you let go of the cup) change the speed and arc of the paint cup?

SAMPLE TN STANDARDS

Physical Science

PSCI.PS2.1 -Use mathematical representations to show how various factors (e.g., position, time, direction of force) affect one-dimensional kinematics parameters (distance, displacement, speed, velocity, acceleration). Determine graphically the relationships among those one-dimensional kinematics parameters.

Visual Arts

Foundation Cr1- Generate and conceptualize artistic ideas and work.

MATERIALS

- Broom stick or dowel
- Paper cup
- Kitchen trash bags (2)
- Paper clip
- Paint + water
- Washer
- String

