

AFTER SCHOOL CLUB



AGES 6-12
@ 5:00 PM

MAKE IT! - ACROBATIC PNEUMATICS

INTRODUCTION

Harness the power of air and water to move your own devices from jack-in-the-boxes to dump trucks. Learn the basics of fluid dynamics with different sized syringes and tubing.



WHAT WE'LL BE USING:

- Syringes
- Plastic Tubing
- Cardboard
- Popsicle Sticks
- Hot Glue

What is fluid dynamics?

Fluid dynamics is the study of how liquids and gasses move or flow. When these states of matter are placed under pressure, we are able to utilize them to do mechanical work. A few examples of machines that rely on pressurized water or air are heavy construction equipment and bicycles pumps!

Subjects:

- Engineering Design Process
- Fluid Dynamics

Standards:

- 3 PS 2-1
- K-2 ETS 1-2

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Maker

Capacities:

- Tinker to Explore
- Prototype and Test

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Key Terms

- Pneumatics
- Hydraulics