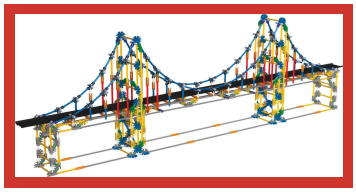
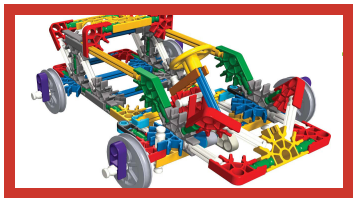
2019-2020 Afterschool Club @ Bayard Rustin
Budding STEM Engineer projects

Kindergarten through 5th Grade
Monday, 3:50 pm – 5:00 pm

Fall session (8 weeks) – Oct-7, 14, 21, 28 Nov 4, 18, 25, Dec 8 ($190)
Winter/Spring Session (10 weeks) – Feb-3, 10, 24, Mar 2, 9, 23, 30, Apr 20, 27, May 4 ($210)



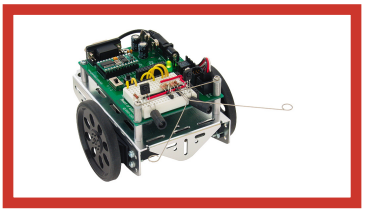
Structural Engineer: (Fall/Winter/Spring Session)
K – 5th Build model bridges - Learn about the different typets of bridges and how they are built to support load - Build and investigate various types of bridges.
3rd – 5th will study the history, function, structural design, geometry and strength of bridge e.g. Beam, Truss, Cantilever and Bascule Bridges.



Mechanical Engineer: (Fall/Winter/Spring Session)
K – 5th Learn about different types of simple machines and how they function to make work easier. E.g. Gears, Levers, Pulleys - Build and investigate various types of machines

Environmental Engineer: (Fall/Winter/Spring Session)
K – 5th Save the environment! Learn about various alternative energy sources by building and investigating an eco-house, an eco-city, models of hydro-powered systems and solar-powered vehicles!

Electrical Engineer: (Fall/Winter/Spring Session)
K – 5th Electrical components: Resistors, Capacitors, Diodes, etc. and application in systems - illustrated by building FM radios, lie detectors, Automated streetlamps and having fun with flying saucers.



Robotics Engineer: (Winter/Spring session)
Build your own robot while learning about electrical circuit theory, electrical components, servo motors, photo-resistors, infrared sensors and transmitters.

Where: Bayard Rustin ES Classroom TBA

How much: Fall Session $190 participant/Session (all materials included)
Winter-Spring Session $210/participant/Session (all materials included)

STEM AFTERSCHOOL ACADEMY

Contact: stemafterschool@gmail.com | 202-460-4250 | stemafterschoolacademy.com
To register, please contact us or visit http://www.stemafterschoolacademy.com

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