AFTER-SCHOOL STEM CLUB

ST. MICHAEL'S

Join the club for our brain-building classes. Our students practice critical thinking and problem solving skills while they **play**, **think**, and **learn**.

Engineering

Day: Tuesday
Start Date: January 29
Reg. Deadline: Jan. 22
Late Reg. Fee: $15
Late registrations will not be accepted after 1/25.

Grades K-5
Time: 3:30-4:30
Cost: $77

Class Dates
1/29, 2/5, 2/12,
2/26, 3/5, 3/12
No class on 2/19

Class List
Strength of Shapes
Magnets in Engineering
Simple & Complex Machines
Chemical Engineering
Electrical Engineering
Science of Bridges

Register online at register.brainstemaz.com.

520-733-7000

BRAIN STEM

We're eager and excited to bring you our STEM club!

Mission Statement

Using play as a catalyst, we move minds towards critical thinking and problem solving by providing STEM-related educational support services.

Play. Think. Learn.

Classes — Engineering

Strength of Shapes

Geometry & engineering come together as we test the structural merits of different 3D shapes. We'll push our handmade structures to their breaking points to learn how different shapes distribute the forces placed on them and how that knowledge helps us build stronger, lighter structures!

Simple & Complex Machines

We've learned to leverage simple machines in clever ways that give us more power than our muscles ever could. The students will use pulley systems and lever arms to see how we combine these simple machines into contraptions that give us a mechanical advantage to make amazing feats possible.

Electrical Engineering

We'll take the initial steps into the world of electronics and begin to demystify the insides of the technology that makes our modern lives possible. Students will put this knowledge to good use by learning how to hook up switches and run motors to move gears and axles.

Magnets in Engineering

Magnets are integral to a substantial number of technologies most of us use, including motors, speakers, cell phones, and computers. We'll begin to explore the critical role magnets play in these gadgets that have become a part of our everyday lives.

Chemical Engineering

We're stepping into the lab this week to try our hand at chemically engineering ingredients from a common slime recipe by mixing in modifiers to create a new substance with different properties. The class will go about this process using controlled laboratory techniques.

Science of Bridges

Through testing, models, math, and sometimes trial and error, many cultures have devised a variety of ways to construct the bridges that connect our world. Our young engineers will build and break their way through a history of bridges and gain a real appreciation for the amazing structures that they pass over and under as they go about their lives.

Visit us online: brainstemaz.com

"Like" us if you like us!