

STREAM Academy

STEM + Religion and the Arts = STREAM
Course Brochure 2019-2020

6TH ANNIVERSARY EDITION
GOING STRONG: ISSUE NO. 06 2019

Prepare Students for their Bright Future

Choose Courses
Order Online @
WNYCatholicSchools.com

TRAINING DATE:
August 21, 2019

X-STREAM Games

12/7/2019 @ St. Joseph Collegiate



*Build STREAM Programming
and turn on the next generation of designers,
scientists, leaders and believers!*

Pre-K-1

STREAM Littlebit MIX IT UP!

There's More to the Picture!

**NEW
2019**

As children develop, they become focused on creating representations and conveying ideas and emotions. This course highlights the "A" in **STREAM** for our youngest learners!

Students will be introduced to famous artists, explore color, style, and methods of painting while connecting to literature and religion concepts and other core subject areas. Come "mix it up" and connect curriculum to the inner artist of every child!



Kit, Binder & Training

\$239

Pre-K-1

STREAM Littlebit

A BLAST WITH BUBBLES

Up, up and Away!

Who doesn't love bubbles? Children will explore the science of bubbles and make connections to literature and writing throughout this Littlebit course.

A range of activities will allow investigation, design, and creativity for our youngest learners. This course will surely be a blast!



Kit and Binder Only

\$239

Gd K-2

STREAM SPROUTS

CREATION 2.0



STEMIFIED!
NEW
AND IMPROVED

The time-honored faith story of creation is expanded across the core curriculum in this engaging, new "stemified" course. The water cycle, anatomy of seeds, and the solar system along with many other science extensions are explored and supported by powerpoints and new digital resources. This is a fabulous interdisciplinary unit rooted in Genesis.

Kit and Binder Only

\$249

Gd 1-2

OUR FIVE SUPERPOWERS!

Exploring the Five Senses

NEW 2019



Explore the science behind how messages of sound, smell taste, touch and sight are communicated through the body. Go on unusual adventures and enjoy writing about sensory experiences across the curriculum. This is a deep dive into a grand exploration of all our true superpowers- the five senses!

Kit, Binder & Training

\$249

Gd 2-3

The Man, the Myth the Legend: GALILEO

WELCOME TO THE SCIENTIFIC METHOD

NEW
2019

IF I AM A SCIENTIST, WHAT DO I DO??

Teach the "Next Gen" standards to the next generation of scientists!

Join in the journey of scientific exploration integrating Social Studies, ELA, and STEM! To begin this course, our youngest scientists will learn the wonders of an icon: Galileo- the master of observation!

Students will engage in hands-on activities and exploration. They will keep a "scientific notebook" as Galileo did to introduce and master the fundamentals of scientific exploration!

Observation

Prediction

Sorting

Classifying

Measuring

Modeling

Gathering Data

Communicating Discoveries



\$199

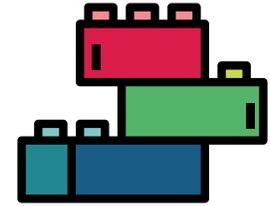
Kit, Binder & Training

FAN FAVORITES BINDER ONLY

● \$49

Gd K-2

LEGO U 3.0 Best of the Best

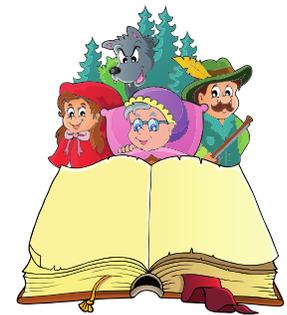


FUN WITH A PURPOSE

We take the "Best of Lego I and II and add more new design challenges to link Lego building to all subject areas !

Gd 1-3

PEAP STORYBOOK FAVORITES

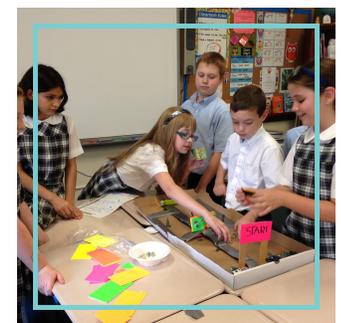


ENGAGE STUDENTS IN THE PRIMARY ENGINEERING ADVENTURES PROGRAM

Invite students to create solutions to problems! Use the "GEAR UP" Engineering Design Process to help Little Red Riding Hood and other favorite story characters solve their dilemmas!

Gd 1-8

Arcade Academy



DESIGN and BUILD

This course- an oldie but a proven goodie- invites students to design and build fun and engaging arcade games for a good cause.

FYI

Running Kitchen Chem???

No binder this year.

If so, we will give out Top's Gift Cards (from Fidelis) to STREAM Coordinators in September!

Std. 3-5

Lights, Camera, ACTION

NEWLY
EXPANDED

"All the world's a stage!"

This course is a fabulous way to guide students toward self-expression through a broad introduction to plays, monologues, mime, improvisation, theatre games, musical theatre, and stagecraft.

Each week brings a new opportunity to broaden students interests and unleash creativity while gaining important life skills. Each school can enter a team into in the X-STREAM spotlight on December 7th at SJCI.



Kit, Binder & Training

\$269

Gd 3-6

CIRCUIT CUBES



**NEW
2019**

**INNOVATING
and ENGINEERING IS A SNAP!**

Using Circuit Cubes by Tenka Labs, students will learn about simple and complex circuits. Through exploration of the Circuit Cubes, and specific weekly engineering challenges, students will be challenged to apply circuitry lessons by making simple robots that can preform many tasks.

Circuit Cubes are designed to fit with LEGO bricks and enables constructive fun through innovation! The options are endless! Come join the fun!



\$329

Kit, Binder & Training

Gd 3-5



NEW
2019

Integrate the art and design of comic book story writing and illustration!

There is no better way to encourage reading than to author your own comic book! We will explore the history, style, illustration and making of great comics, and use expert tips from the pros to produce our very own comic book.

Using the technology of Book Creator, students will bring the building blocks of writing great stories to life and reinforce every ELA concept!



\$189

Kit, Binder & Training

Gd 4-6

**RUBE
GOLDBERG:**

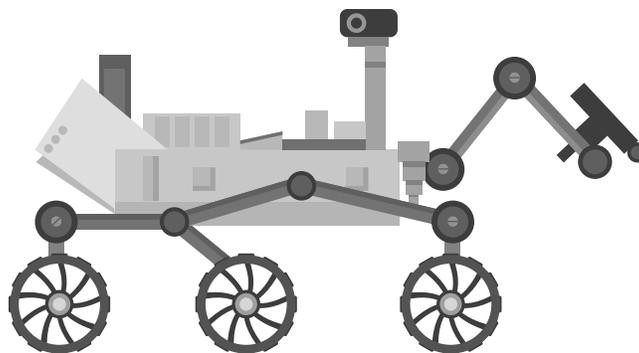
**THE
CONTRAPTION GENIUS!**

**NEW
2019**

An American cartoonist, sculptor, author, engineer, and inventor. Goldberg is best known for his popular designs depicting complicated gadgets performing simple tasks. There's something completely fascinating about building and watching a Rube Goldberg contraption!

This course is all about that!

Students will study and build both simple and complex machines. They will utilize the Engineering Design Process to create an original contraption! Follow in the footsteps of Rube Goldberg and design and build something amazing! Come join in the fun!



Kit, Binder & Training

\$319

Cr. 4-6

FAB FASHION

The Art and Science of the Runway



Get creative within the world of fashion!

Explore design, engineering, and visual art through fashion design! Use innovative patterns, color, and the design process to solve fashion objectives in the weekly challenges. Students work individually and collaboratively to meet challenge objectives.

No sewing skills? No problem! This course is designed with a no-sew option for any teacher and child. Come and enjoy as you master the skills to become the future of fashion!



\$269

Kit, Binder & Training

Gr. 5-8

Science Scrimmage 2019

CSI EXPERIENCE

FORENSICS



Science Scrimmage 2019:
The CSI Experience

Solve mysteries using the science of forensics in this year's Science Scrimmage. Students will observe trace evidence, investigate fingerprinting, extract DNA, create transfer patterns, and examine fiber and handwriting evidence to master problem solving like a true crime scene investigator.

Ignite the power of real-life science application! Each school can enter a team to put their forensic skills to the test at the X-STREAM Games CSI Competition Saturday, December 7th at SJCI.



Kit, Binder & Training

\$289

Cd 5-8

MOCK \$TOCK MARKET



NEW
2019

Ever wonder what makes companies like Amazon and Addidas grow strong and prosper??? WALK THE WALK of Wall Street and learn about the exciting world of investing.

Students will learn the basics and manage a virtual portfolio of \$10,000 with real time stock market trading and tracking through the TD Stock Market Simulator.

Elements of math, economics, marketing, technology and U.S. history are taught so students can knowledgeably build an investment empire!

This is an eye-opening look into the world of popular companies! Students can simulate the real world of finance!



\$199

Kit, Binder & Training

NEW YEAR. NEW CHALLENGE.

Gd 6-8

ROBOTICS

Get teachers training
Order the 2019 Challenge!

SEE VEX
ORDER FORMS
ONLINE



Our VEX Robotics design course offers students an exciting platform for learning about career opportunities spanning science, technology, engineering and math!

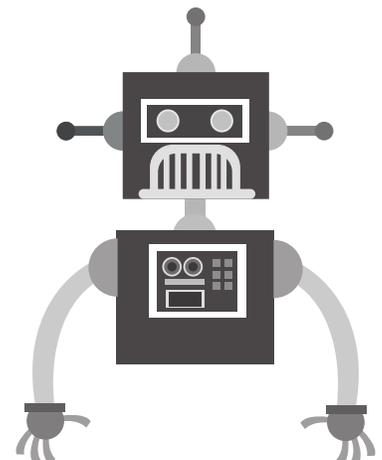
The program encourages teamwork, leadership and problem-solving among student design teams. Teachers can easily accommodate a variety of student skill levels.

This year's X-STREAM game pieces and/or replacement part kits are available too.

Provide deeper learning! Challenge students to try their hand at advanced programming! Learn how with August training!

VEX training available 8/21 for \$29
VEX orderforms and information
available through our [STREAM Academy registration link](#).

ORDER VEX NOW! DO NOT DELAY.



Gd. 6-8

Ignite the **POWER OF ART**



A MATTER OF JUSTICE

Students will explore and study the positive messages conveyed through art and music in our culture and develop their own thoughts and ability to become the powerful voice of social justice through their art work. Studio time is spent creating mini-murals using mixed media, and giving students a voice for their creative endeavor.

Gd 6-8

Rockin' Roller Coasters



MAKE PHYSICS COME ALIVE

Students will research the history of roller coasters, and the physics that they employ. They will test run computer generated coasters, and ultimately design and build their own working marble roller coaster!

Gd 4-6

SHARK TANK! Invention Convention



IDEAS to PRODUCTS

Ignite the inventive spirit that drives consumer products! Students will be challenged to problem solve and design using the same procedure an inventor would use. Students will learn the inventive process and apply it to create their own "Shark Tank- worthy" product!! Competition is 12/7 @SJCI.