

STREAM

Nativity of Mary School

**SCIENCE • TECHNOLOGY • RELIGION
ENGINEERING • ART • MATH**



Catholic Schools
DIOCESE OF BUFFALO

STREAM @ NBVM



WHAT IS STREAM?

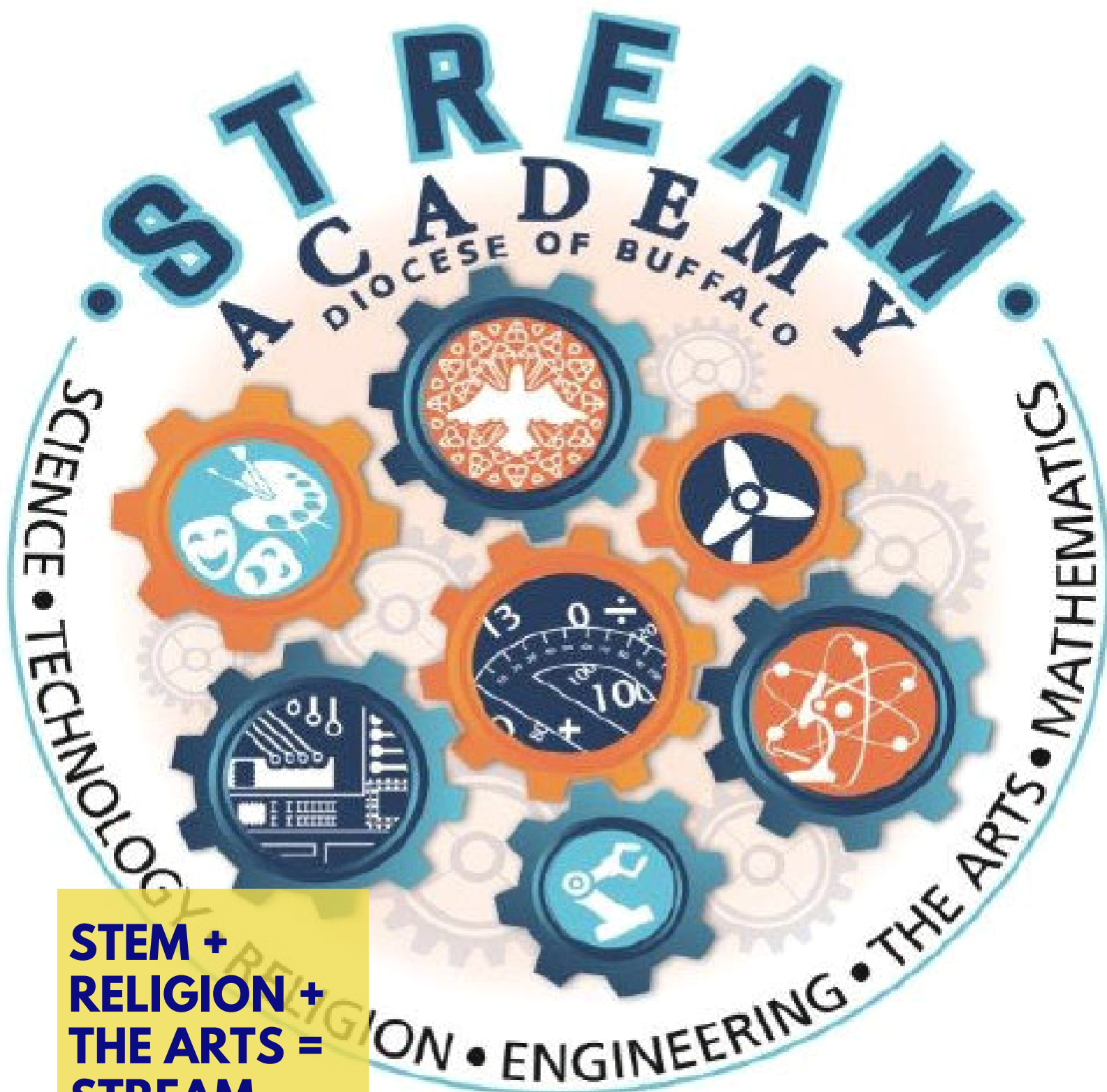
The basics of STREAM at
Nativity of Mary School | 1

WHAT DOES STREAM LOOK LIKE AT NBVM?

Discover the STREAM
Academies at NBVM | 2

WHAT IS MY CHILD LEARNING?

What STREAM Academy is
your child in? | 2



STEM + RELIGION + THE ARTS = STREAM

In January 2017, Nativity of Mary School adopted the STREAM program.

STREAM is not a new curriculum, but rather a framework for impactful instruction and meaningful learning.

1 | Stream

STREAM is an expansion of STEM. It is an acronym for Science, Technology, Religion, Engineering, the Arts and Math. As Catholic schools, our mission is to educate the whole child; therefore, we have taken the principals of STEM infused religion across all subjects and added the arts to provide students the creative thinking skills necessary to communicate and advance STEM in the real world.

STREAM is also a visual description of flowing water. In the classroom STREAM is the flow of ideas over and across several subject areas. Equally important is the fact that the success of the STREAM program at any school will require a constant flow of communication, collaboration and planning among parish, school, administration, staff, parents and students.

STREAM AT NATIVITY OF MARY SCHOOL

CURRENT STREAM ACADEMIES

STREAM @ NBVM

03 STREAM Sprouts

04 PEAP

05 LEGO U

06 Kitchen Chem

07 Arcade Academy

08 Robotics

09 Rockin' Roller Coaster

STREAM Sprouts: Exploring Creation

Pre-K, KR, K
Build a foundation
for the love of our
natural world.

Children benefit from exploring nature in and outside the classroom. These guided activities offer opportunities for investigation and discovery in the areas of insects, plants/ growing, weather, and animals and their habitats. These dynamic hands-on activities synchronize with the creation story: Genesis Chapter One. This academy allows the young learners at Nativity to explore the wonder of creation!



PEAP

Grades 1-3

Primary Engineering Adventure Program

Students help Curious George catch and keep a new friend, as they discover the enchantment of engineering! Our youngest learners will adapt the Engineering Design Process to meet the needs of their favorite literature friends! Students will generate ideas, build, and test solutions collaboratively to help their favorite characters solve a problem.



LEGO U

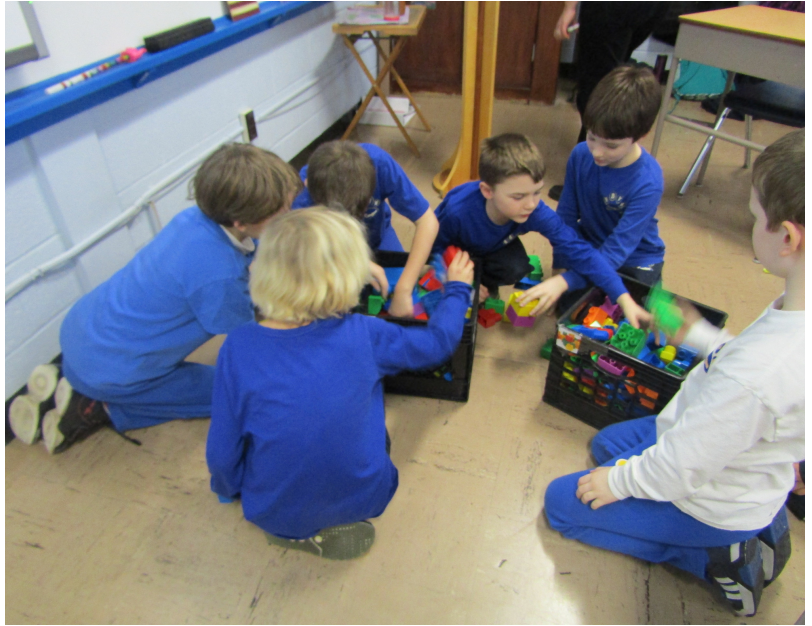
Grades Pre-K - 2

Fun with a purpose!

"In their eyes, it's a toy. In their hands, it's a tool." LEGO ®

Ready, set, build! This STREAM academy provides an engaging, playful learning experience for our youngest learners. Students work cooperatively to design, build, test engineering principles while having buckets of FUN!

Each week, the students will undertake a design challenge connected to topics taught at the primary level in ELA, Science, S.S., Religion, or Math utilizing LEGO ® bricks. They will also have a time at the end of the sessions to present and share, practicing and strengthening their presentation skills.



Kitchen Chem

Grades 2-4

Chemistry, Biology, &
Simple Life-Science

The chemistry, biology, and simple life science exploration will be emphasized throughout this course.

For example: Grandma's Pancakes-Secret Ingredients.

Mini "CHOPPED" competitions engage students in the creative aspect of food preparation as well!



Arcade Academy

Grades K-8

Design, Build, &
PLAY!

Based on “Caine’s Arcade,” This course invites students to design and build fun and engaging arcade games made from cardboard, recycled materials and imagination. The games are then shared with the school community at NBVM.



Robotics

Grades 5-8

Named the #1 game changer for
STREAM Programs
across the country!

This Robotics design course offers students at Nativity of Mary School an exciting platform for learning about areas rich with career opportunities in science, technology, engineering and math (STEM).

The program encourages teamwork, leadership and problem-solving among student design teams.



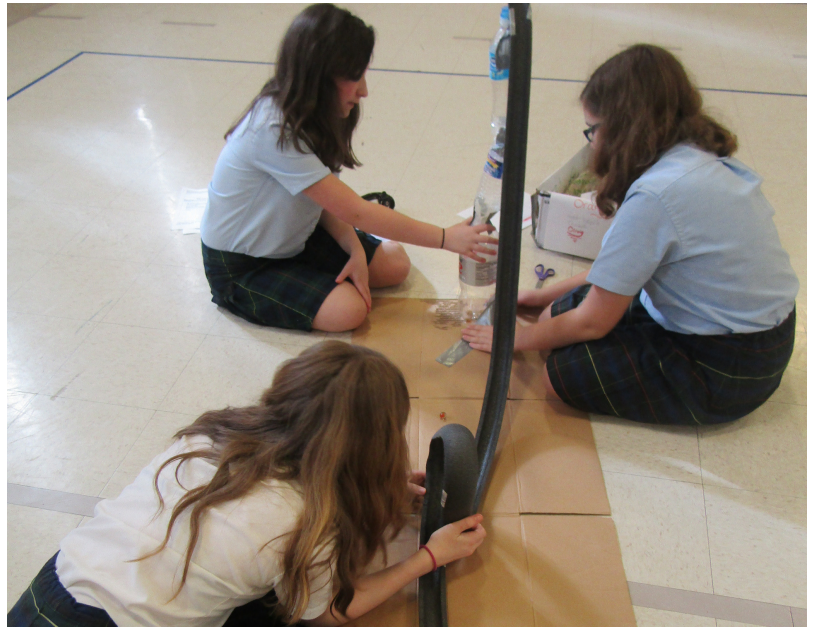
Rockin' Roller Coaster

Grades 6-8

Fun with Physics!

What gives your stomach that strange queasy sensation when you're going up or downhill on your favorite roller coaster? Why does it seem impossible to move your arms at certain points during the ride? What keeps the cars from flying off the track, and if you change the shape of a corkscrew, how will it change the ride? Students at NBVM find out the answers to these questions and more.

The students at Nativity in grades 6-8 will research the history of roller coasters, the physics that they employ, test run computer generated coasters, and ultimately build their own marble roller coaster that WILL work!





STREAM PROVIDES A RUNWAY FOR OUR NEXT GENERATION OF BELIEVERS, INNOVATORS, SCIENTISTS AND LEADERS!



To learn more visit: www.nativityofmaryschool.org/academics/stream/

View additional photos of our STREAM Program: Find us on Facebook at Nativity of Mary School