Back at it!
STREAM Cohort II
Year Two

SCIENCE + TECHNOLOGY + RELIGION + ENGINEERING + THE ARTS + MATH =

Catholic Schools
[THE EQUATION FOR A SUPERIOR EDUCATION]
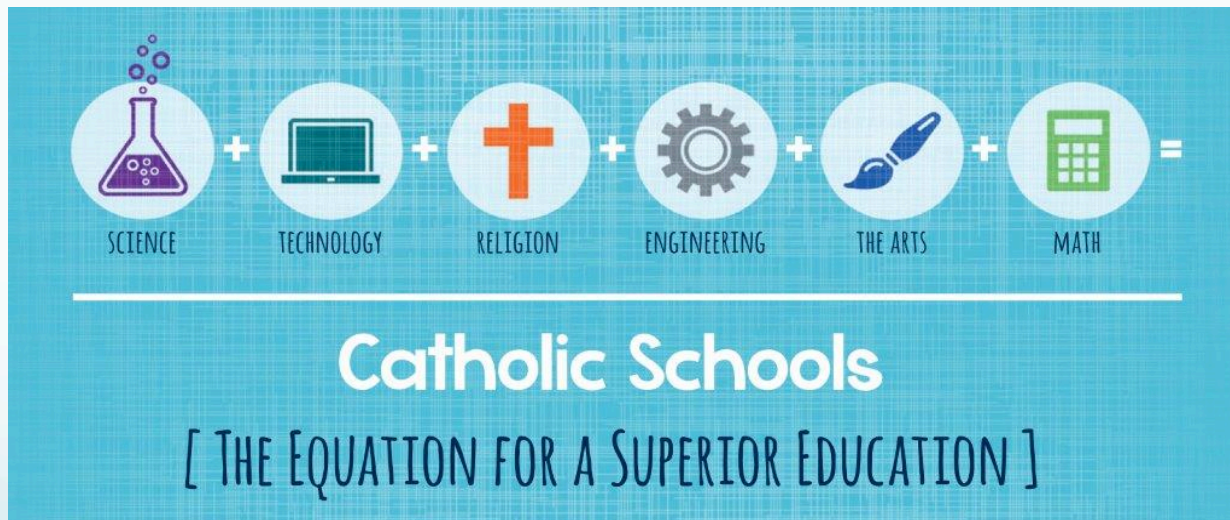
Diocese of Buffalo STREAM Education Initiative

S T E M

The Future of WNY………………….
Where do we see evidence?
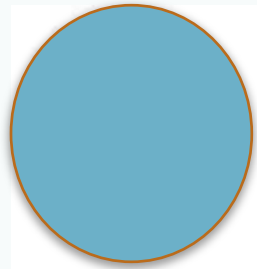
DIOCESE of BUFFALO

SCIENCE + TECHNOLOGY + RELIGION + ENGINEERING + THE ARTS + MATH =
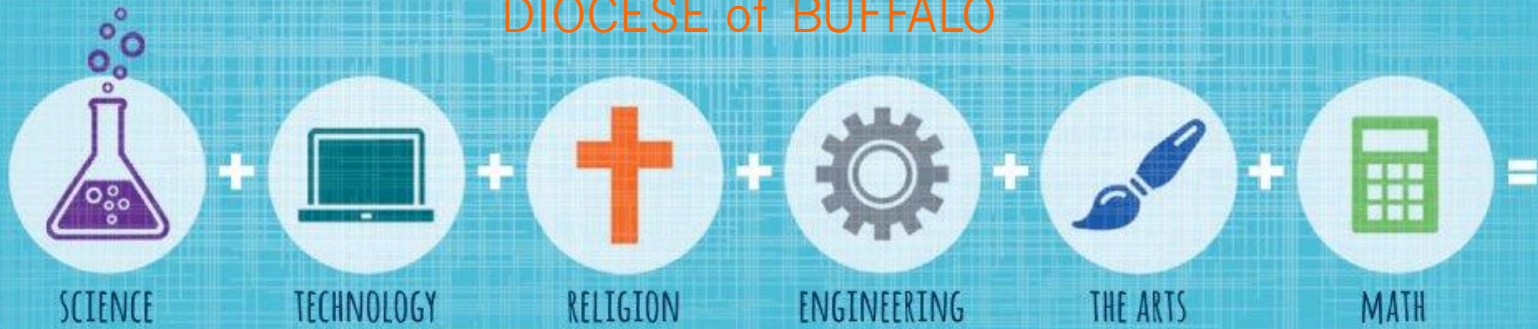
Catholic Schools

[The Equation for a Superior Education]

S T R E A M

Educating our Young People for their Future

STREAM

What We Know:

Human Nature: *Curious, Creative, Multiple Intelligences*

Our Economy: *Changed*

Information: *Everywhere*

Our World: *Globalized*

Our WNY: *Renaissance driven by BNMC.Waterfront.Start Ups. Buffalo Billion. (BUFFALO NEWS ARTICLES)*

PROFILE of a STREAM SCHOOL

PRINCIPLES:

☑ **Technology Training is Made a Priority for Increased Use in Teaching and Learning**
Let's learn more tech to keep up with the world in which our students live!

☑ **Marked Increase in Hands-on Science**
Students learn science by DOING science. Build budding scientists. Use ESP to the max.

☑ **Curriculum is Enhanced through Community Connections**
Let's go out into community/bring community into our classrooms. Let's seek more opportunities!

☑ **Real Life Application is Emphasized Across Subject Areas**
Let's connect the learning to real life with guests, parents, and career exploration

☑ **Interdisciplinary Unit Planning is Evident**
We can plan learning topics and connect subject areas. Plan to implement IUP this year!

☑ **Engineering Design Process is Introduced and Integrated**
We can apply a great critical thinking process & engineer within the curriculum. 3 per grade.
We are ahead of the curve with NEXT GEN. Engineering isn't just for science!

☑ **The Professional Development around STREAM Principles Grows to Meet School Needs**
Your diocese is here to help you achieve your goals around STREAM.

☑ **Marketing and Awareness around STREAM Grows in your Wider School Community**

PROFILE of STREAM EDUCATION

PRINCIPLES

☑ **Technology Training is Made a Priority and Utilized in Teaching and Learning**

☑ **Marked Increase in Hands-on/Experiential Science**

☑ **Curriculum is Enhanced through Community Connections/ Partners**

☑ **Real Life Application is Emphasized Across Subject Areas**

☑ **Interdisciplinary Planning &/or Project Based Learning is Evident**

☑ **Engineering Design Process is Introduced and Integrated**

☑ **The Professional Development around STREAM Principles Grows to Meet School Needs**

☑ **Enhanced Awareness, Marketing, and Fundraising around STREAM**

ALL ROOTED IN BEST PRACTICES

Know the Difference.

| Using Technology	Technology Integration
Technology usage is random, arbitrary & often an afterthought	Technology usage is planned & purposeful
Technology is rare or sporadically used in the classroom	Technology is a routine part of the classroom environment
Technology is used purely for the sake of using technology	Technology is used to support curricular goals & learning objectives
Technology is used to instruct students on content	Technology is used to engage students with content
Technology is mostly being used by the instructor(s)	Technology is mostly being used by the student(s)
Focus on simply using technologies	Focus on using technologies to create and develop new thinking processes
More instructional time is spent learning how to use the technology	More instructional time is spent using the technology to learn
Technology is used to complete lower-order thinking tasks	Technology is used to encourage higher-order thinking skills
Technology is used solely by individuals working alone	Technology is used to facilitate collaboration in & out of the classroom
Technology is used to facilitate activities that are feasible or easier without technology	Technology is used to facilitate activities that would otherwise be difficult or impossible
Technology is used to deliver information	Technology is used to construct & build knowledge
Technology is peripheral to the learning activity	Technology is essential to the learning activity

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Specials Connections
Interdisciplinary Work

Thank you for your curriculum work.
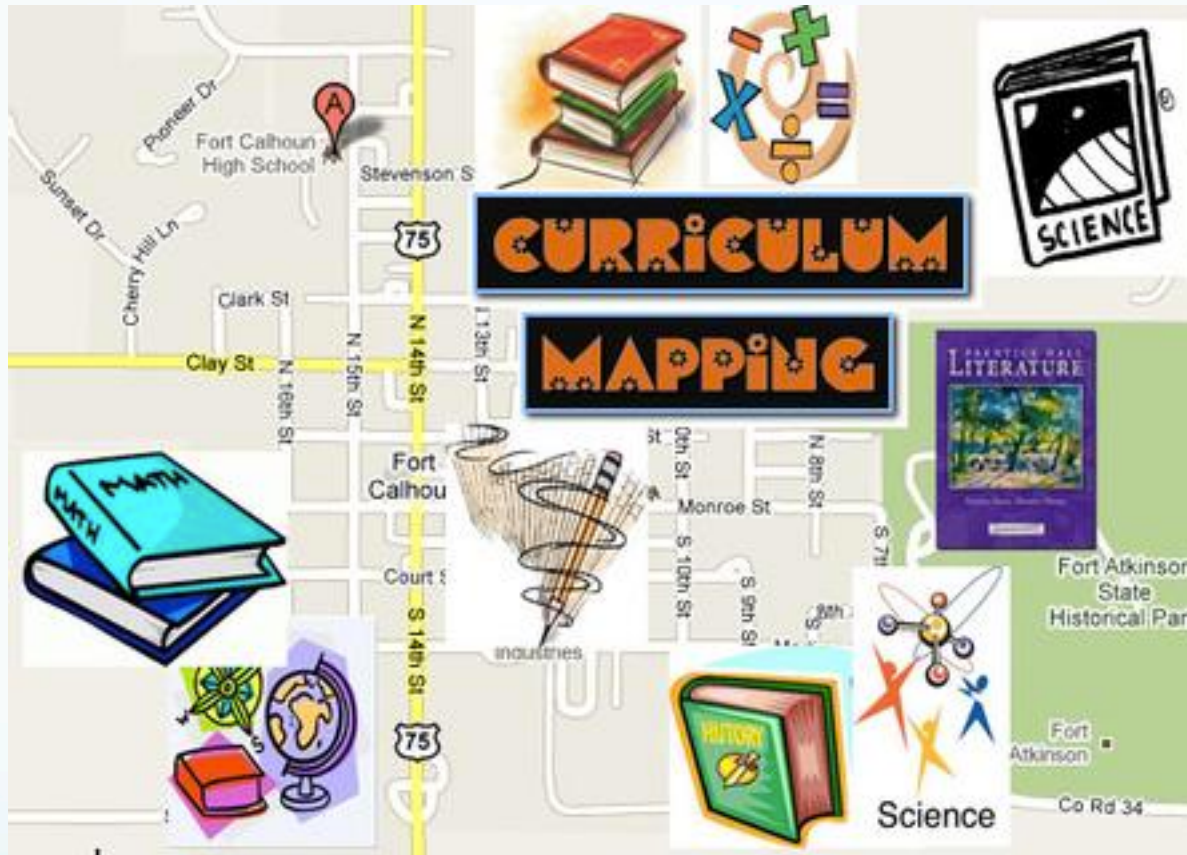
Sharing is Caring!
Using Faculty Meetings to Share STREAM Success.
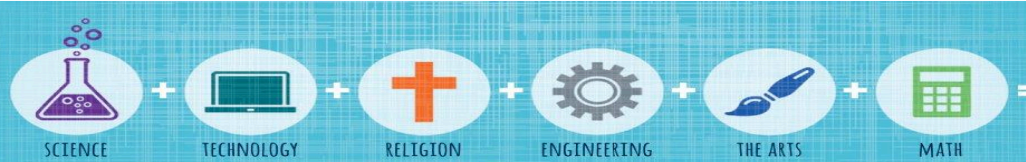
STREAM Education Principles are about:

Connectivity

➤ Connects with students by utilizing the digital world- their world

➤ Connects students to concepts by "doing"

➤ Connects learning across subject areas

➤ Connects students to their future by exercising the 21st Century Skillset- The Four "C"s- COLLABORATION. CREATIVITY. CRITICAL THINKING. COMMUICATION.

➤ Connects students to potential careers as well as individuals and institutions within their community

➤ Connects staff to one another as you learn and plan collaboratively