

St. Joseph Catholic School

S

Science

T

Technology

E

Engineering

E

Exec Functioning Skills

A

the Arts

M

Mathematics

What is our definition of STEEAM at St. Joseph Catholic School:

An acronym used to define a classroom in which students are engaged in critical thinking, value-based communicating, and collaborating to creatively solve real world problems. We take a whole-child approach to teaching children. We show them how to make connections across various technologies to real-world concepts simply by strategic questioning and guided learning. The learning process applied with STEEAM provides students with the opportunity to be competitive in the global community.

As more and more jobs require science and math skills and degrees, fewer and fewer United States college graduates are earning degrees in either math or science. We need to begin in Elementary and Middle School to engage and interest our students in learning and finding solutions for 21st century puzzles and problems.

Creating relevant learning opportunities based on real-life challenges and community concerns has been proven to be a highly effective and engaging instructional approach.

Problem/Project-based learning provides students opportunities to:

- examine and try out what you know discover what you need to learn
- develop your people skills for achieving higher performance in teams
- improve your communications skills
- state and defend positions with evidence and sound argument
- become more flexible in processing information and meeting obligations
- practice skills that you will need after your education

STEEAM shapes our everyday experiences. Science examines our natural world...the elements, animals, plants, cells, food, fuel...The list is almost endless.

Technology means computers and smartphones, television, radio, microscopes...

Engineering is used along with mathematics to design buildings, roads, and bridges, but it also tackles today's challenges of transportation, global warming and environment-friendly machines and systems. We also use mathematics in our everyday lives at the grocery store and in dealing with the family budget.

The Arts shape our culture and help us understand ourselves and each other..celebrating our similarities and differences.

No new ideas will be possible without the opportunity and exploration of creativity.

Everything we explore is the result of the creative process of turning abstract ideas with organized skills and conscious values, into working products or systems.

We only have to look around to see what improvements to our lives have been engineered in the last decade alone. STEEAM pervades every aspect of our lives.

