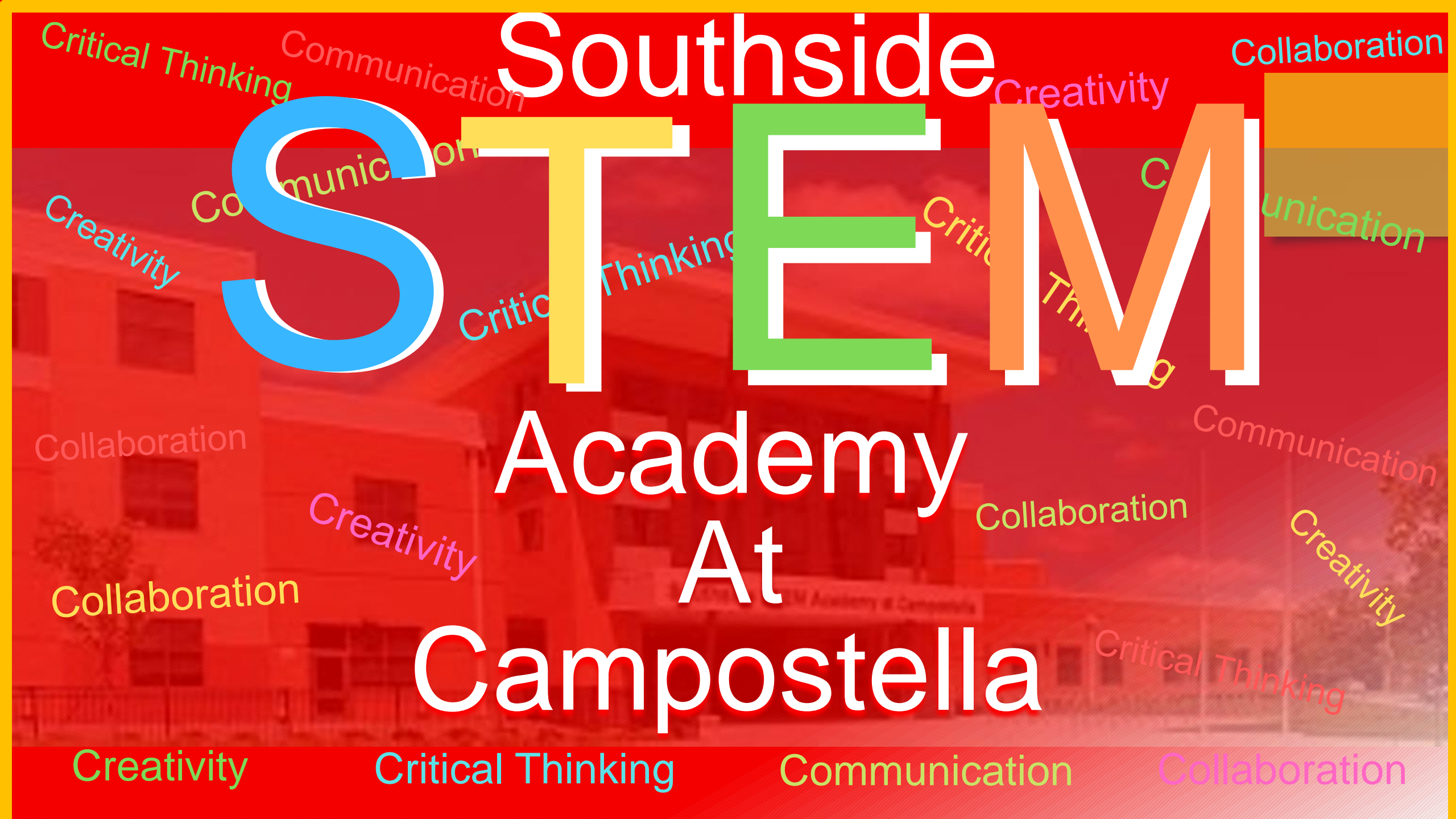


# Middle School Specialty Program



# Southside STEM

Academy  
At  
Campostella





# Mission Statement for STEM Education

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The Southside STEM Academy at Campostella has a program that incorporates Problem and Project-Based learning with special emphasis on the area of Engineering. Its purpose is to increase early student value and awareness in STEM areas of Science, Technology, Pre-Engineering, and Mathematics while preparing them with 21<sup>st</sup> Century skills necessary to meet the future demands of a globally competitive workforce.

# S.S.A.C. Alignment with VDOE

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## How is STEM Education being refocused?

Recently there has been a shift in beliefs about the purpose of STEM education. Traditionally a STEM education focused on creating a pipeline of students whose educational backgrounds prepared them for a STEM-specific workforce. Today, the focus is on developing STEM-literate citizens necessary for success in any 21st century profession. STEM literacy is the ability to identify and acknowledge science, technology, engineering and mathematics concepts and processes in everyday life.

**STEM literacy comes from an understanding that it takes**

- a scientific approach to observe and interpret the world
- technology to serve as a tool to solve problems or reach a goal
- engineering to design, test and solve a problem through the creation of products or processes
- and mathematics to help quantify, comprehend and evaluate the problem and solution's success

Today's economy requires people to be critical and creative thinkers, excellent communicators, collaborators and community-minded citizens.



# What are the 4 C's of STEM?



**Collaboration**

I can.... listen, share, and work with others. I can support others as a team to reach a common goal.



**Communication**

I can.... share my thoughts, explain my ideas, and ask questions to better understand the ideas of others.



**Critical Thinking**

I can.... ask, question, analyze situations, solve problems, and make connections in my learning across subjects.



**Creativity**

I can.... combine unique ideas in a variety of innovative ways to get things done or make something new.

# Academic Offerings

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Algebra I

Future Problem Solvers

Career Technical Education

Spanish I

Art I

World Geography

Biology

Technology Foundations

Project Lead the Way

Computer Science

Acellus

# Activities

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- Train Academy
- G.I.R.L.S
- Chrome Club
- Intramurals
- S.T.E.M. Sports
- Acellus
- S.T.E.M. Sports
- Student Government Association
- S.T.E.M. Newsletter
- S.T.E.M. Expo



# Southside STEM Academy at Campostella

