

# Problems:

- Deficit of knowledge workers for the 21<sup>st</sup> century economy
- Wide disparity between districts in offerings for highly able students
- Limited exposure to rich, integrated STEAM curriculum for all students

# Solution: The Virginia Science Technology, Engineering, and Applied Mathematics (STEAM) Academy

“Where intellect and innovation converge”

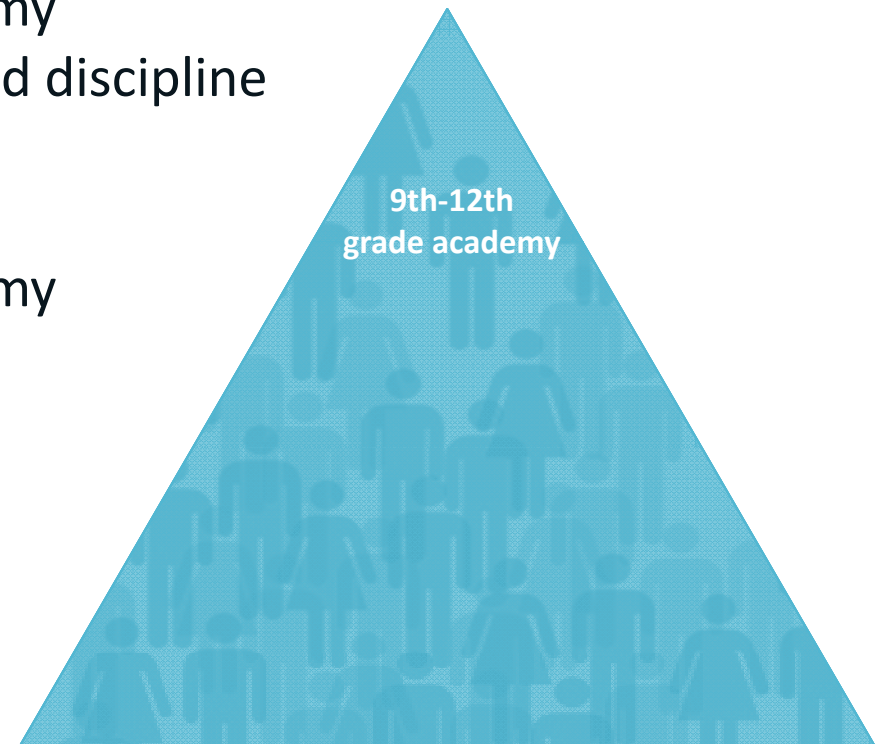
# VA STEAM Academy has three components

1. Establish a public, residential academy for 1,000, 9th-12th grade Virginia students who show talent in science, engineering, or mathematics
2. Create a middle school summer residential academy for highly able students in science, engineering, or mathematics
3. Serve as an incubator/laboratory for integrated STEAM curriculum and pedagogy for students and teachers across the Commonwealth



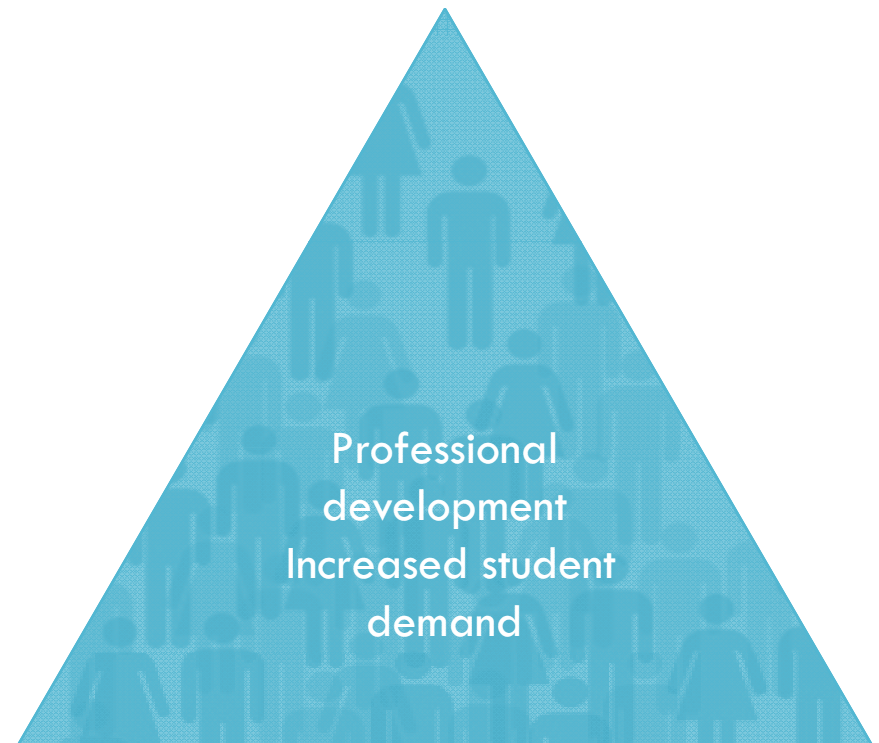
# Impact: Economic Growth

- At least 60% of VA STEAM Academy graduates pursue a STEAM-related discipline
- At least 60% of VA STEAM Academy alums live and work in Virginia



# Impact: Academic Demand

- High-quality professional development for teachers across the Commonwealth
- Increased student demand and preparedness for honors, AP, IB, Governor's academies and the Virginia STEAM Academy across the State

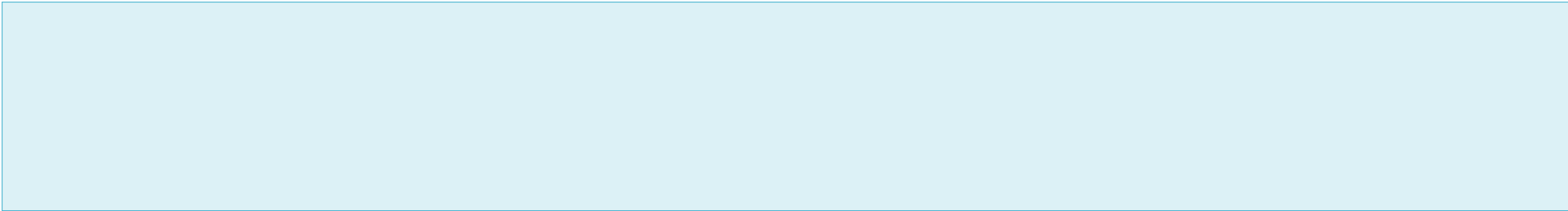


# Key elements

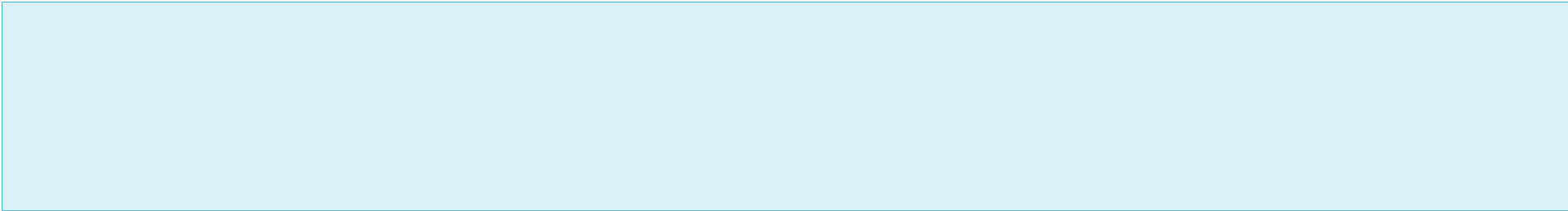
- Comprehensive, internationally-benchmarked high school with a STEAM emphasis
- Exceptionally well-trained faculty
- Student and faculty partnership with practicing scientists at universities and in business and industry
- Sustainable public-private partnerships (local, state, and national)
- Adaptive reuse of buildings/gifting of land to control costs

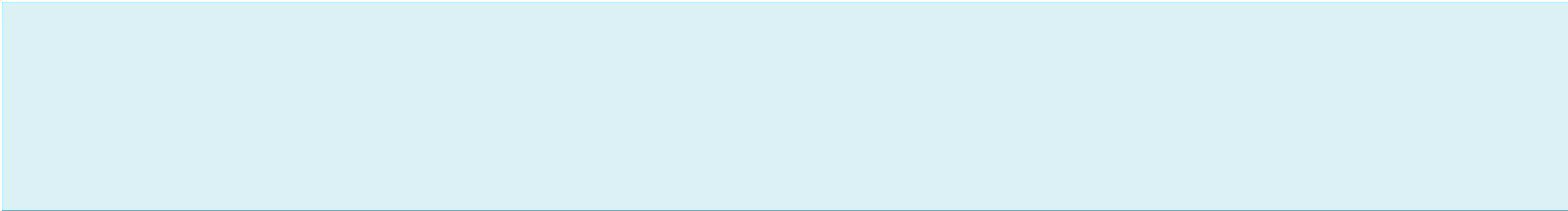
# Fort Monroe: A site of interest





VIRGINIA  
**STEAM**  
ACADEMY





VIRGINIA  
**STEAM**  
ACADEMY

# Timeline

2011 – Kick-off campaign

2012 – Hire principal and president and locate Academy

2013 – Hire teachers, residential counselors, and launch  
summer middle graders' camp

2014 – Freshman class enters

2018 – Graduation of inaugural class

# Steering Committee

## Established Steering Committee

- **Jim Batterson**, retired NASA engineer and former special assistant on loan from NASA to the Secretary of Education
- **Gilbert Bland**, vice chair, State Council of Higher Education for Virginia
- **E. Dana Dickens, III**, president and CEO, Hampton Roads Partnership
- **Jack Ezzell**, president, Zel Technologies
- **Danielle Hinton**, consultant, Boston Consulting Group; MIT Presidential Fellow

# Steering Committee, cont.

## Established Steering Committee

- **Wayne Lett**, retired superintendent, Newport News
- **M. Caroline Martin**, retired Executive Riverside Health System/ CEO, Riverside Regional Medical Center
- **Colleen Seremet**, retired and immediate past Maryland Assistant State Superintendent for Instruction, Maryland
- **Judy Stewart**, president, Taylor Education Consulting, Inc.
- Advisory Capacity: **Elizabeth Taraski**, Planning/Marketing Strategic Planning Consultant