



LOVE WHAT YOU LEARN

Pioneer Technology & Arts Academy



Charter Transfer



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A



M

School Of ENGINEERING & TECHNOLOGY

STEAM Academy Serving Grades K-8 for 2021-2022

Mission & Vision

Student Leaders

Effective Teachers

Community Investment

- **Global Leader in STEM Education**
- **Prepare all Students for success in postsecondary education**
- **Increase the diversity of students earning STEM degrees and entering STEM professions**
- **Ensure all members of our Community make positive contributions to the world around them.**

Transfer Process

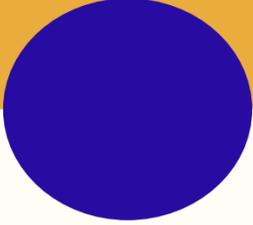
Student Leaders

Effective Teachers

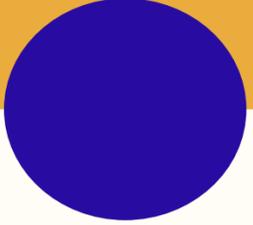
Community Investment

- **What to Expect?**
- **Why is this process initiated?**
- **Do Students need to reapply?**
- **What are the timelines?**
- **What grades are offered next year and following Year?**
- **When will High School be offered?**

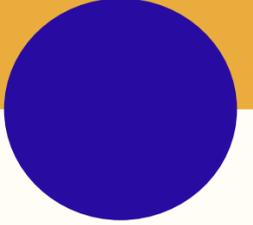
Educational Philosophy



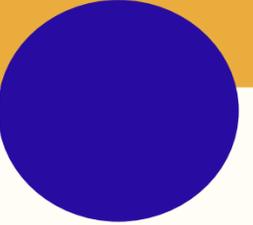
Prioritize
21st Century
Critical Skills



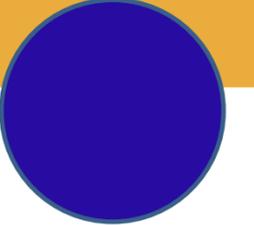
Emphasize
Student Inquiry
and
Investigation



Differentiated
Individual
Educational Plans
respecting all
learners



Address the
achievement
and opportunity
gaps in STEM



Adding “A” to
STEM
Cross
Curricular Arts
Integration

**STRONG and EFFECTIVE EDUCATIONAL
MODEL
PUBLIC CHARTER SCHOOL RATING**

"A"

last 3 years

Pioneer Technology & Arts Academy/Texas

APTITUDE OVER AGE

STUDENTS ARE TAUGHT AT THEIR APTITUDE
LEVEL INSTEAD OF THEIR GRADE LEVEL

APTITUDE TESTS ARE ADMINISTERED TO
DETERMINE STRENGTHS AND WEAKNESSES IN
AN EFFORT TO DISCERN ROTATION
PLACEMENT THAT ALIGN WITH THEIR
INDIVIDUAL NEEDS

PTAA STUDENTS ARE CHALLENGED TO MEET
HIGHER STANDARDS AT EACH GRADE LEVEL

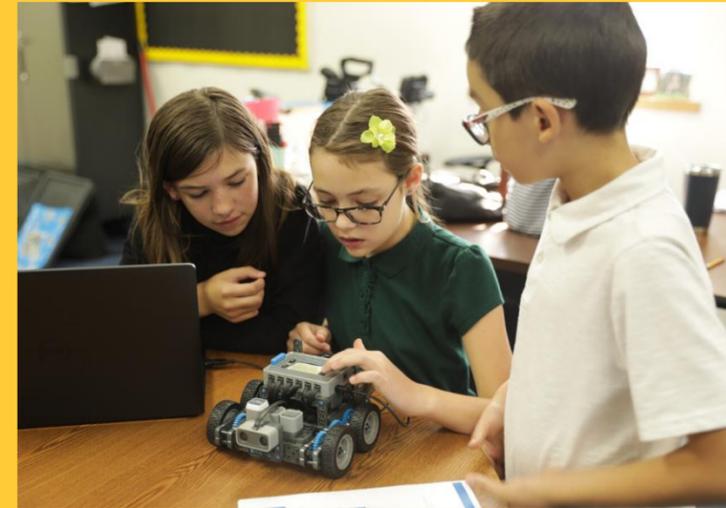
Rotation Program



INCLUSION SCHEDULING

K – 3rd Grade

- **Increased appreciation and acceptance of individual differences**
- **Opportunities to master activities by practicing and teaching others**
- **Greater academic outcomes**



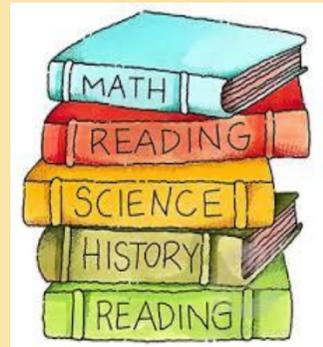
ROTATION SCHEDULING

4th - 6th Grade

- **Each Rotation taught by Subject Specialist Teacher**
- **Students are placed in subject rotations that align with their aptitude**
- **They are encouraged to achieve higher levels of critical thinking and problem solving**

Curriculum

core classes



ELAR

Math

Social Studies/Science

STEAM / Coding / Robotics

electives



Art

Mandarin /

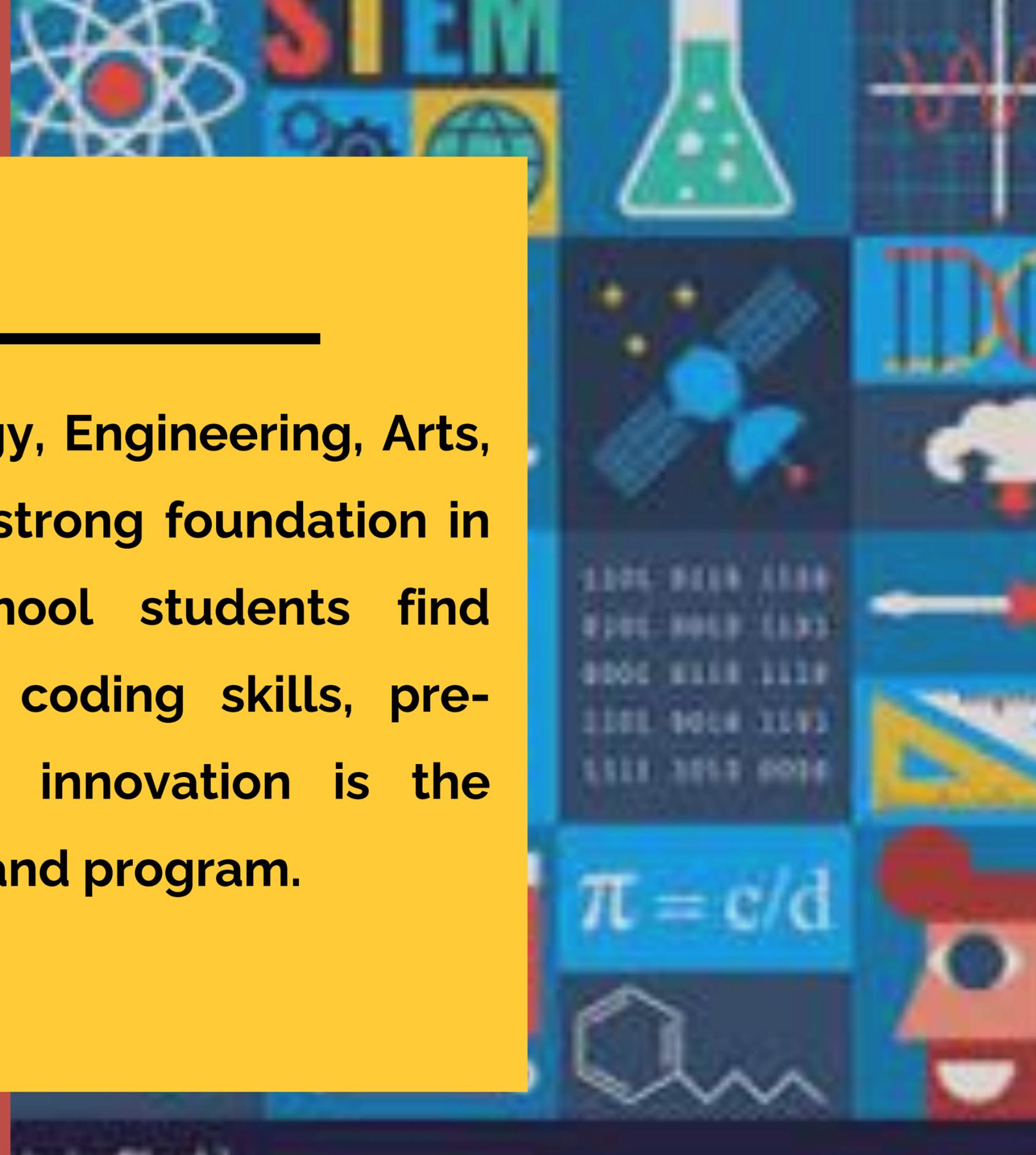
Spanish

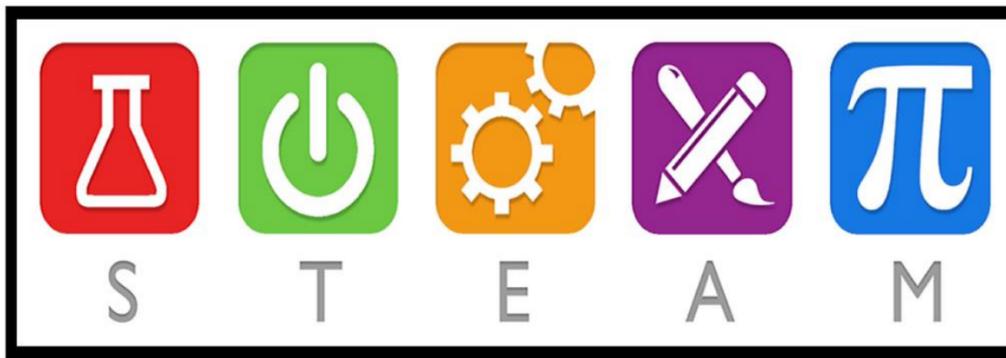
Music

Physical Education

STEAM

Teaching STEAM (Science, Technology, Engineering, Arts, Math) helps young students build a strong foundation in the subjects that many high school students find challenging. Teaching K-6th grade coding skills, pre-engineering design, creativity, and innovation is the foundational piece of our curriculum and program.





STEAM Cross Curricular Arts Integration



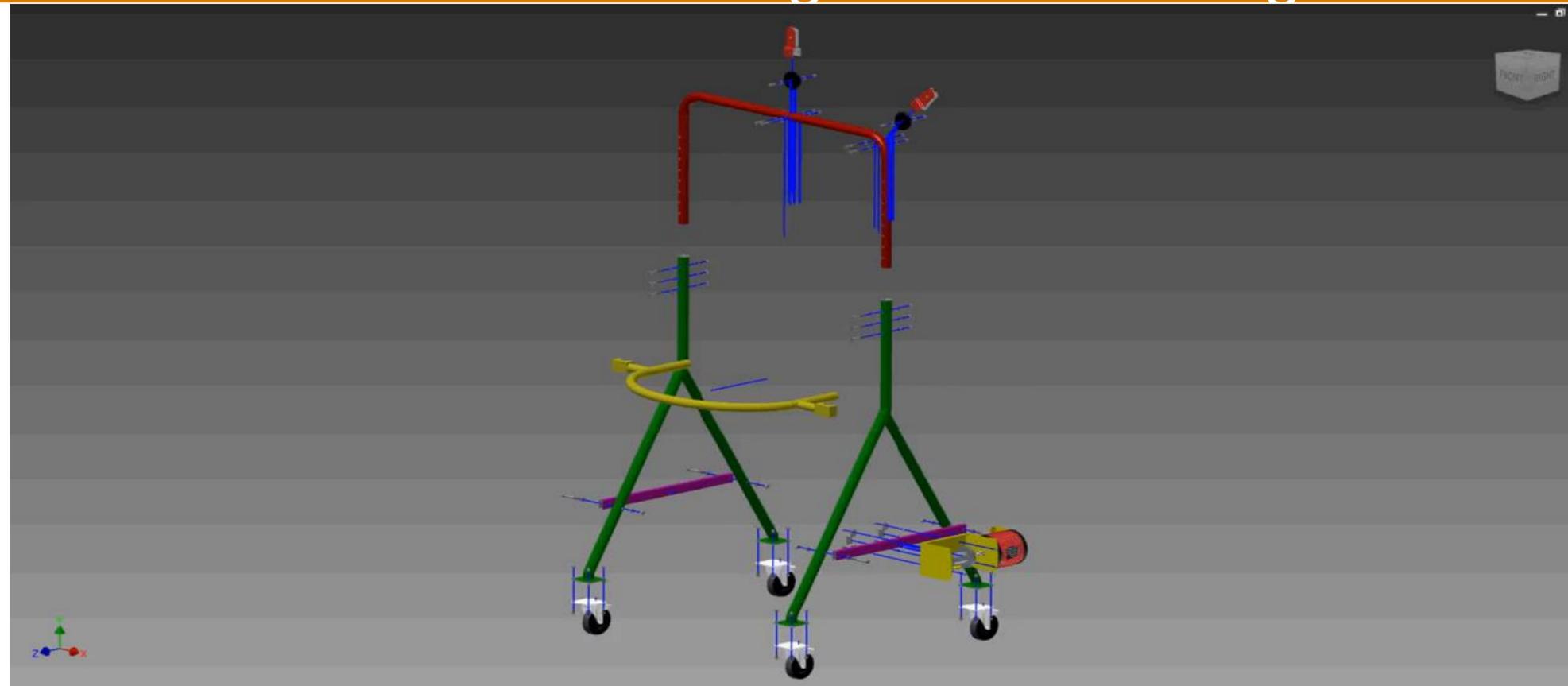
- **Infuses Creativity in All Aspects of Education**
- **Improves School Culture and Student Success**
- **Promotes an Environment of Creative Thought and Innovation**
- **Discards the 'one-size-fits-all' teaching model to meet all learning styles**

School Of ENGINEERING & TECHNOLOGY

Technology & Engineering Differentiators. Scaffolded Approach

Elementary, Middle School and High School	
Elementary School	
Launch Program	Robotics and Automation
	Modelling and Simulation
Middle School	
Gateway Program	Automation and Robotics
	Design and Modeling
	Green Architecture
Computer Science	Android Apps Development
	Website Development
	Object Oriented Programming
High School	
Engineering Program	Introduction to Engineering
	Computer Engineering
	Biomed Engineering
Computer Sciences	Artificial Intelligence (AI Courses)
	Virtual Reality, Application Development

The Future belong to 3D Modeling

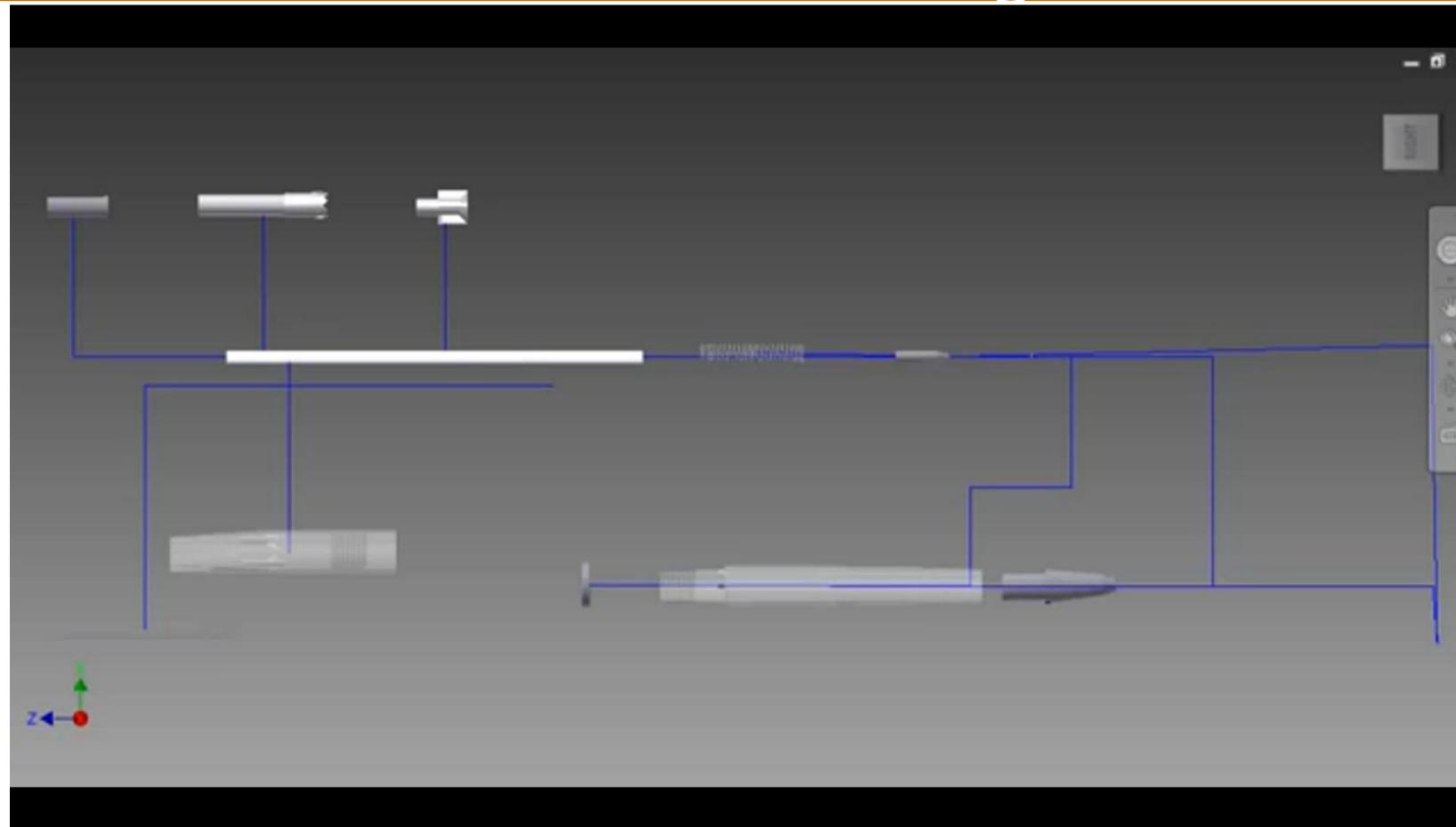


Architecture, Manufacturing, Animation films, Advertisements etc.

Easily sharable across geographies through the Internet.

**** 3D cad modeling has brought about huge improvements and efficiencies in architecture, construction and manufacturing.*

Ball Pen Design



3D models are used in a wide variety of fields like
medicine, movies, science, architecture and engineering

...Combining Education and Fun .

BRICS Exchange Program

BRICS (Brazil, Russia, India, China and South Africa)



Brazil



India



China

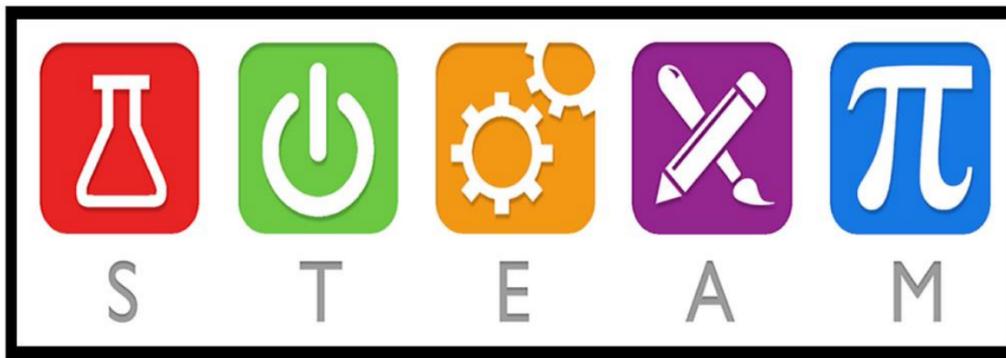
- Learn culture, business, and language from different countries.
- Stronger portfolios for high school graduates when they apply to various colleges or enroll into an internship program.

Program Highlights

Multilingual seven year program	Mandarin & Spanish
Boarding Program	96 students per semester from China, India and Brazil per campus
6 months Foreign courses for PTAA students	China, India and Brazil

Student Exchange: The primary focus of this program is to expose, challenge and mentor our students with their foreign peers in the fastest growing economies.

BRICS nations are the Fastest Growing Economies in the world.



School Hour

- **School Hours 8:00 AM – 3:30 PM**
- **Tutoring Hours 3:30 PM – 4:15PM**
- **Kindergarten Hours : 8:00 AM – 12:00 MORNING**
- **Kindergarten Hours : 11:30 AM – 3:30 PM Afternoon**
- **Preschool Hours 7:00 AM – 6:00 PM**
- **Before School Hours 7:00 AM – 7:30 AM**
- **After School Hours 3:30 PM – 6:00 PM**

PRESCHOOL/ BEFORE & AFTER SCHOOL

Preschool PROGRAM

Pre k and Pre 3

Available through

Meadow Oaks

Academy

On Campus

EXTRA CURRICULAR ACTIVITIES

Dance

Guitar

Bike Club

Sports

*Campus Specific

TUTORING PROGRAM

Content based
tutoring available
for all students

AFTER SCHOOL PROGRAMS

3:30 pm - 6:00 pm

Additional costs



The Future is Bright for PTAA High School PTECH Campus



**Projected Addition Build Rollout Beginning
2023-2024**

School Of ENGINEERING & TECHNOLOGY

PTAA Industry Partnerships

Pathways in Technology Early College High School



**Microsoft
TEALS**



SHARP



Lockheed Martin



ENROLL NOW

2021–2022 School Year
Grades K–8

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PTAA Website

