



STEM **iNoVaTe** BUS PROJECT

powered by **STEM U**

WHAT IS IT

The STEM iNoVaTe Lab is a mobile smart classroom that connects scholars to problem-based learning through the integration of STEM or STEAM principles, career exploration and deliverables



We need to have a dedicated Wi-Fi source.

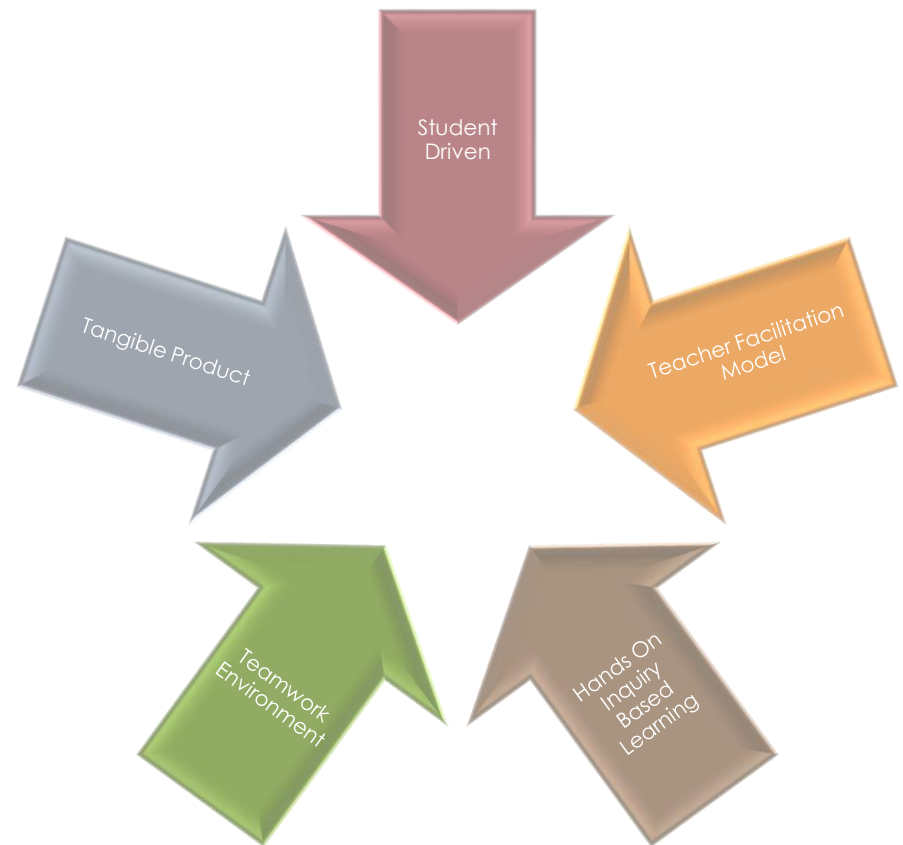
WHY

PBL + STEM & STEAM =
Real World Problem Exploration

EQUITY + INCLUSION
Exposing all Scholars to STEM

SUSTAINABILITY + GROWTH

- Ability to Expand STEM Deliverables
- Classroom Extension
- Community Engagement



INTEGRATION

The STEM iNoVaTe bus project integration supports five centric pillars...

Hands-On

Interactive

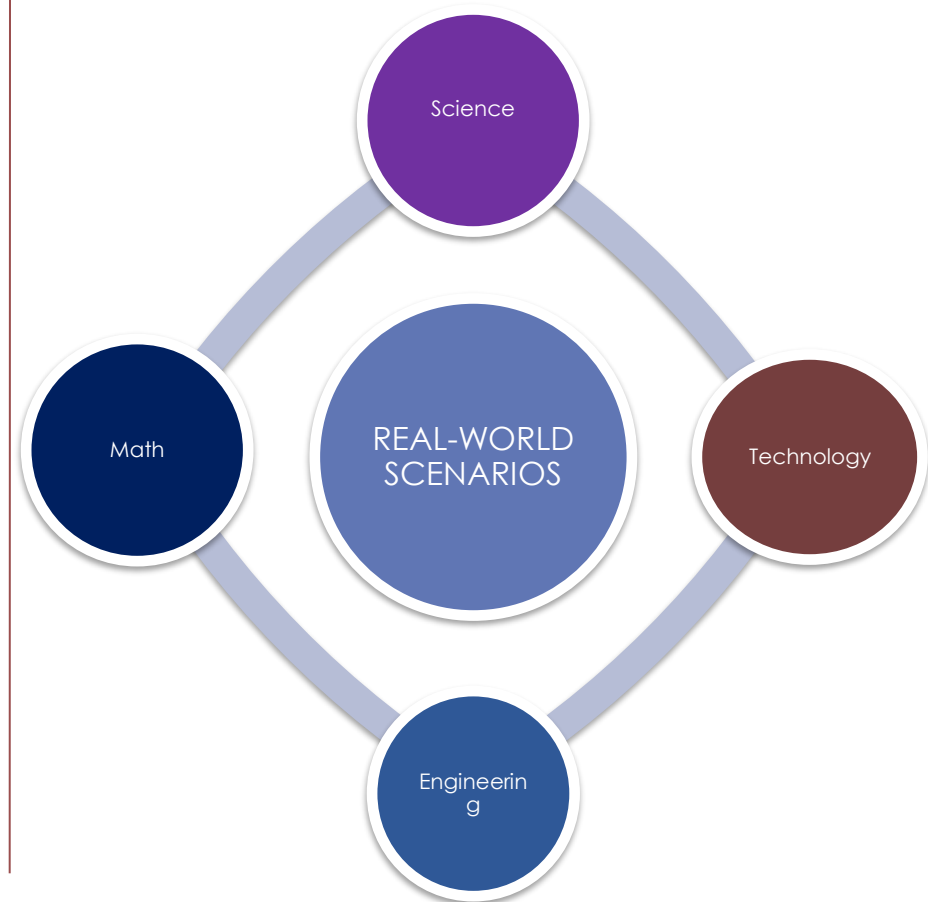
Critical Thinking

Decision Making

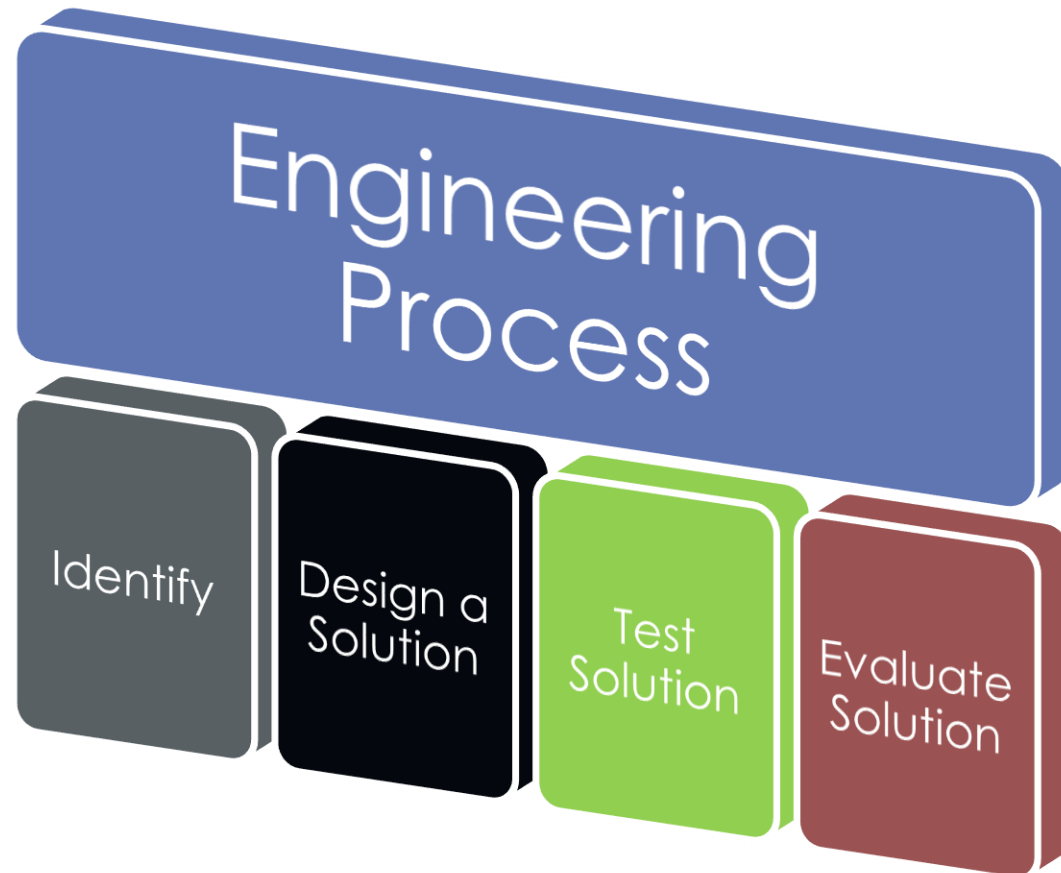
Organized Chaos

VISUALIZE THE LEARNING

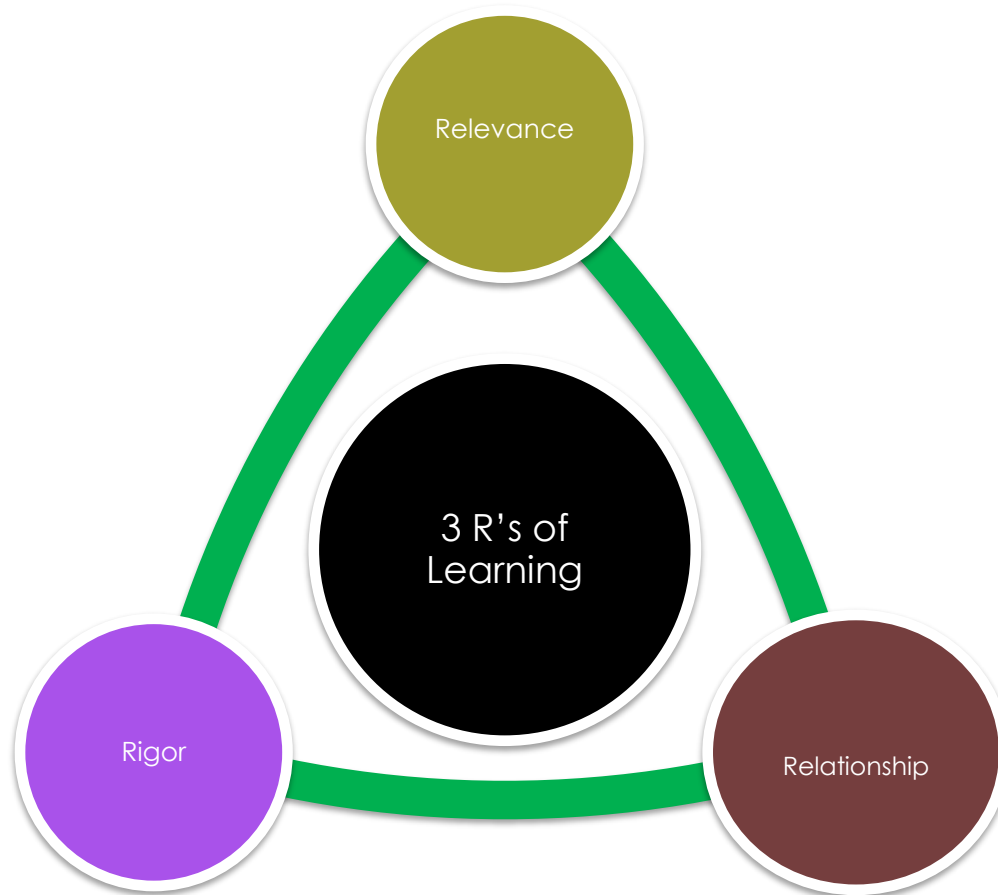
1. Uses all four or five (art not listed) disciplines to solve real-world scenarios
2. Organize Chaos (intentional) learning and collaborative spaces
3. Student driven and teacher facilitated
4. Requires higher-order thinking
5. Interchangeable



DELIVERY METHOD



FOCUS



TARGET AUDIENCE

1. Progressive Model
2. Interchangeable Content
3. Cross Deliverable Applications & Content
4. Grade Appropriate Rigor

K – 12
DISTRICT

SAMPLE CONTENT

- **BIOMEDICAL**

- ✓ zSpace – Virtual & Augmented Reality Tool

- **COMPUTER SCIENCE**

- ✓ Block-based, Java, Python

- **ELECTRONICS**

- ✓ Circuits - Little Bits

- **ENGINEERING**

- ✓ EV3 / Sphero Bolt – Robotics Engineering

- **ADVANCE PROTOTYPING**

- ✓ 3D Printing

- **AEROSPACE ENGINEERING**

- ✓ Drones

DELIVERY TIMELINE

From consultation, planning and design the turn-key project takes an average Covid Impact.

**18 – 22
months**

COST

The cost of the project varies per;

- Bus Condition
- Equipment
- Content
- Staffing
- Materials
- Chassis Size

\$300K - \$800K

avg.

PROCESS

