

ASPIRE Lionel Wilson College Preparatory Academy

Design for Social Change: An Engineering Pathway

Aligned CTE Industry Sector: Engineering and Architecture

Rigorous Academics

Measure N Investments

- Pathway family orientation for 9th grade
- Materials and Supplies for engineering design courses and design challenges
- 1.0 FTE Pathway teacher
- PBL and Linked Learning PD
- Stipends for teacher planning
- Travel Funds

Pillar Components/Activities

- Access to A-G approved coursework
- Pathway aligned cross-curricular exhibition projects
- Exhibition planning during common meeting time
- CTE standards alignment and embedded Design Thinking experiences in core content classes and advisory
- Developed Critical Thinking and Problem Solving Rubric

Career Technical Education

Measure N Investments

- PLTW program fees and teacher training
- Stipends for teaching planning
- Travel Funds

CTE Course Sequence

- 9th - BUILD Engineering and Design
- 10th - PLTW Intro to Engineering Design
- 11th - Intermediate Engineering Design
- 12th - Engineering Design Capstone

Pillar Components/Activities

- MYC Youth Leadership Council
- Student ambassadors and committees
- Professional Speaker Series
- Schoolwide Engineering Design Retreat
- Industry consultation on project design, student feedback
- Senior Design Capstone
- 9th grade BUILD design project
- Developed Critical Thinking and Problem Solving Rubric

Work-Based Learning (WBL)

Measure N Investments

- Nasa and Lawrence Hall of Science experiences
- Travel Funds

Partnerships

- Youth Uprising DPN
- Genesys Works
- Planting Justice
- Mycelium Youth Network
- Frogger
- BUILD
- NASA
- Lawrence Hall of Science
- DCAC
- Autodesk
- Project Lead the Way
- Tesla
- Peralta CTE

Pillar Components/Activities

- Senior career portfolio (resume, cover letter, research, mock interview ,etc.)
- Professional Speaker Series
- Job ready training with Youth Uprising
- Internships with Youth Uprising and Genesys Works
- Career Panels

Student Supports

Measure N Investments

- Stipends for teaching planning

Partnerships

- Youth Uprising
- Teens on Target
- Girls on the Run
- Hi-Tech High PBL
- DCAC
- BUILD

Pillar Components/Activities

- Pathway family orientation for 9th grade
- Differentiated Academic/Career Counseling and Grad pathway planning
- Intervention and Credit Recovery Blocks
- SEL development in advisory
- MHC and advisory push-in support
- COST and Tiered academic supports (small group, CICO, MHC, etc.)
- Comprehensive SPED team including IAs, MHC, behavior specialist