



STEM ACADEMY
TEAM MEETING
FRIDAY, AUGUST 30, 2024

- I. Welcome/Celebrations
 - a. Malloy - Academy demographics - achieved our increasing female enrollment by 4% (actually from % 2027 to 2028, raised percentage 10 points)
 - b. Brookreson - Having fun teaching content, students are engaged in projects
 - c. Treybig - started PLTW core training this week
- II. Old Business (Sara Malloy)
 - a. P-TECH Designation
 - i. Student Tracking
 - 1. Tracking in Google Sheet (all)
 - b. Advisory Board
 - i. Meeting on 9/18/2024
 - 1. Pushed 1 week due to turnaround at Exxon
- III. New Business
 - a. NOCTI Ordering
 - i. Engineering Science (54 total)
 - ii. 1st year for this IBC
 - iii. Keep to juniors 1st year
 - iv. To obtain goal - 32/54 need to pass IBC
 - b. Power Up Program (formerly WIT)
 - i. Changes in the program requirements
 - ii. Bechtel will sponsor/AVID?
 - c. Field Trips
 - i. 10/2/24 Rice University
 - ii. Open to all juniors - first come, first served to 40 total (Rice limit)
 - d. Inventory
 - i. Update in EduThings
 - ii. Look over inventory, add any new items (Bechtel, Brookreson, Richards, Treybig)
 - e. PLCs
 - i. Grade-levels to start after Academy Faculty Meeting
 - ii. Showed Google Drive and area with PLC templates
 - iii. Need to agenda template update core teachers (Malloy)
 - iv. Call AC Faculty meeting (Malloy)
 - v. Determine when grade-level teams will meet, strive for at least 1 interdisciplinary project (Bechtel, Brookreson, Richards, Treybig)
- IV. PLTW Updates
 - a. Introduction to Engineering Design (IED)



- i. Concept Sketching, Rube Goldberg machines
 - b. Environmental Sustainability (ES)
 - i. ES-Thinking Globally, 14 grand challenges of Engineering
 - ii. Robotics I - STEM Labs, Robo Soccer, designed robot courses and taped in hallway
 - c. Principles of Engineering/Engineering Science (POE)
 - i. POE - Force, Work, Efficiency - simple machines
 - ii. Robotics II - working on finishing drive trains
 - d. Engineering Design and Development (EDD)
 - i. EDD - looking for projects to get students engaged in Design Process
 - ii. EDPS - VEX Workcell, like working with hardware
- V. Robotics Pathway
 - a. Introduction to Engineering Design (IED)
 - i. Concept Sketching, Rube Goldberg machines
 - b. Robotics I
 - i. Robotics I - STEM Labs, Robo Soccer, designed robot courses and taped in hallway
 - c. Robotics II
 - i. Robotics II - working on finishing drive trains
 - d. Engineering Design and Development (EDD)/EDPS
 - i. EDD - looking for projects to get students engaged in Design Process
 - ii. EDPS - VEX Workcell, like working with hardware
- VI. Updates
 - a. Ambassador Update
 - i. P-TECH Week in October (activities/dress-up days)
 - ii. Price will check calendar for available weeks in October
 - iii. Would really like a NASA trip (if industry trip, needs to be seniors. Ambassadors are each grade level)
 - b. Career & Technology Student Organizations Update
 - i. Gandeneers (Johan Richards)
 - ii. Girls in STEM (Chouhan & Arnold)
 - iii. TSA (Allen Brookreson)
 - c. EduThings
 - i. Document students and events in EduThings
 - ii. Is WIT included?
 - iii. Need help? Ask Malloy
- VII. Next Team Meeting
 - a. 2nd/4th Mondays? Wednesdays? Fridays?
 - b. 4th Mondays will be targeted
- VIII. Q&A, Concerns
 - a. Cardboard Canoe Races - Exxon is excited, buying materials
 - i. Gandeneers vs Girls in STEM vs Maritime vs IMPACT
 - ii. Races will be at Lee College (targeting December)



Vision: Inspiring students to problem-solve, innovate, and transform their communities

Mission: Preparing students for college and careers as scientists, technologists, engineers and mathematicians in a global society.

Strategic Priorities:

- Increase member enrollment in student organizations by 25% in the 2023-2025 school year
- All Academy students will participate in at least three of the following activities: Field trip, guest speaker, work-based learning and/or dual credit by May 23, 2025
- Increase female enrollment in the academy by 4% for the 2028 cohort.
- Increase participation in the Advisory Board by adding 2 new companies during the 2023-2025 school year.
- STEM Academy students will increase pass rate for all STEM IBC exams attempted by 60% before August 2025.

Attendance:

- Bechtel, Andrea (C-Lunch) *AB*
- Brookreson, Allen *AB*
- Richards, Johan *AB*
- Treybig, John *AB*
- Price, TaMara *AB*
- Malloy, Sara *SM*

Minutes/Notes in Red
Action Items in Blue