Mount Lebanon Elementary STEM Action Plan

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**Big Ideas:**

Make sure that students connect their knowledge, especially from STEM-based content, to future career opportunities. STEM Day connecting Career Day.

**Goals and Objectives:**

Our main goal: To heighten the awareness of STEM career opportunities (questioning, connecting, reflecting, and applying)

Objectives:

- Use engineering design process to aid students in their grade-level STEM projects on STEM Day
- Reflect on STEM projects
- Generate questions to make connections with real-world STEM careers.

**Timeline:**

We plan on implementing this action plan in the upcoming school year.

- STEM Day: November 24th all day
- Career Day: November 25th all day

**Responsibilities:**

- STEM Committee will be formed to assist implementation
- Jane Massey and Artrice Kinard will be the coordinators for scheduling speakers and times
- Tish Goode will support teacher with materials for projects

**Assessments:**

**Tools**

- Rubrics
  - Engineering process and cross-curricular
- Journaling
Resources:

STEM Day

• EIE Units for projects
• Access to engineering lab and materials
• Parent volunteers

Career Day

• List of speakers

Classroom Preparation

STEM Day

• Materials (according to grade-level and project)
• Parent volunteers

Career Day

• Room availability
• Schedule

Learning Experiences

• Real-world application
  o Students will apply background knowledge and use the engineering design process to create a solution to a real world problem
  o Students will apply knowledge that they have learned from their projects and connect it with career speakers

Examples

• Projects guided through EIE units
  o 1st grade: Pollinator, Great Wall of China
  o 2nd grade: Paper helicopters
  o 3rd grade: Changing sounds
  o 4th grade: Turbine, simple circuits
  o 5th grade: Submersibles
  o 6th grade: Catapults