### **Exploring Engineering I**



#### **Design Process and Measurement**

**Course Curriculum** 

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P.O. #1: Develop employability skills, leadership and communication (P.O. #1 **Proficiency Rubric)** 

P.O. #2: Apply the elements and principles of design and compositional techniques to create works of art and visual layouts for both tactile and digital art forms (P.O. #2 Proficiency Rubric)

P.O. #4: Interpret drawings and documentation and perform measurements (P.O. **#4 Proficiency Rubric)** 

P.O. #5: Practice personal safety (P.O. #5 Proficiency Rubric)

#### **Academic Vocabulary**

## **Enduring Understandings**

Students understand that...

- The Engineering Design Process is a method that is used to solve technological challenges to change and improve products for the way we live.
- Engineering strives to design and develop useful devices or materials, defined as technologies, whose purpose is to increase the efficiency and productivity of our world and our quality of life.

# **Essential Questions**

- Why do engineers and designers strive to improve products used in our daily lives?
- Why do we use the engineering design process to solve design challenges?
- How can the engineering design process benefit us in solving problems in our daily live?
- To what extent has technology improved the efficiency and productivity of our society and our enjoyment of our world?