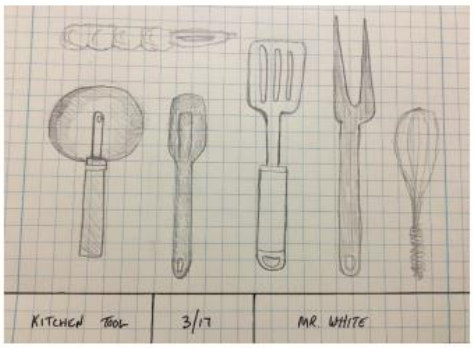
Project: Kitchen Tool Design

SIEMENS



Purpose of the Project: The purpose of this project is to go through the design process and have students brainstorm, sketch, model, and present an innovative practical kitchen tool that could be used in preparing food.

The research and learning activities are designed to help students:

- Create sketches to communicate to a group
- Use mathematical formulas to aid in the design of a product
- Utilize specific software features to create a solid model of their idea
- Communicate their solution to their peers

Deliverables include:

- Engineering Notebook
- CAD model
- Prototype using any available material (Extra Credit)
- Presentation of the development process

The project is divided into 5 parts for the eLearning assignment. Students will be required to complete one part per day for eLearning credit. The project document may have a different daily plan but we will be following the plan below for eLearning.

Day 1: Introduction

- Expectations of the project
- Brainstorming ideas
- Research and Discussion

Day 2: Planning

- Gather information pertaining to the project
- Get the specifications, dimensions, requirements etc.
- Come up with criteria and constraints

Day 3: Designing

- Create 2D sketches
- Check if the sketches meet requirements
- Make necessary improvements to the designs

Day 4: Modeling

- Create 3D sketch with the correct dimensions
- Analyze results

Day 5: Presentation

- Present the development process in PowerPoint
- Create a prototype using available household materials for extra credit