

# Feeding M.A. Ford



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M.A. Ford

## Part I: Overview of Business

- M.A. Ford began in 1919 as a small business that made rotary files
- Today is a leading manufacturer of Standard, High Performance and Custom Cutting tools
- Has manufacturing and distribution facilities all over the world

## Part II: Job Specifics

- My project for the summer was to create a program that estimates the shipping weights of their tools based on their dimensions and type of tool

## Part III: Introduce the Problem

- The M.A. Ford employees are hungry!
- They have entrusted the students at Davenport West High School to purchase, make, and ship a variety of healthy snacks to feed their workers.
- You are to purchase and/or make a variety of healthy snacks for all of the workers at M.A. Ford and using 21st Century Skills and your vast knowledge of mathematics. Be sure to find the most cost-effective way to safely pack and ship them the food they need. Don't forget to find out about preferences and allergies!

## Part IV: Background

- Students need to know/learn/research:
  - how many workers are at M.A. Ford
  - how much to buy in terms of materials
  - the size and weight of the snacks (including formulas for volume/mass)
  - options for shipping
  - how to keep the food protected in transit

## Part V: Business Solution

- Hire a dietician to tackle the logistics. In the past, they have had various crackers, string cheese, fruit, and other healthy options.
- They have a dietician come in every Wednesday to help with "Wellness Wednesdays" for this same idea.

## Part VI: Student Solutions

- Research easy, healthy, cost efficient snacks and find out how many people to feed (and of any allergies)..
- Weigh a bunch and get average weights for each type of snack. Use the weights and formulas for volume of the snacks to figure out an estimated weight for shipping.
- Research options for shipping and different packing techniques.