



Real World Problem Scenario

Scenario:

Site Development

Business:

Pickering and Associates

Business Participant:

John Bentz

Career Cluster(s):

Architecture and Construction

Grade Level:

9-12

Standards & Skills:

Critical Thinking

G.MG.3 Apply geometric methods to solve design problems, e.g., designing an object or structure to satisfy physical constraints or minimize cost

Problem Description:

Students will create a scale drawing for the site of a restaurant. The drawing will include parking lots, entry and exit, sidewalks, lighting, and landscaping. The students will then calculate the cost of given materials.

Things to be considered or defined for the solution:

- Justify the layout of the site
- Accurately calculate the dimensions of the site
- Accurately calculate the cost for materials
- Investigate the requirements for ADA compliance