

Key Chain Project Rubric

Rad-Car Company has had an excess amount of plastic and keyrings from designing their based model car keys. Last year they lost over \$10,000 in excess plastic and keyrings because they did not recycle and/or use the excess material for other products. They have decided to hire you to create keychains out of the excess material. They require that they keychain meet the following constraints:

- Fit within a 2x3 square
- Be at max 1/8 inches thick
- Have a loop for a keyring
- Have one flat surface
- Have at least 1 emboss

Rad-Cars wants you to design three different keychain concepts and prototype only one of them. They want your engineering notebook designs to contain the following: defined project/problem to solve, brainstorming method, 3 different concept sketches each with their own notes and labels.

Rad-Car wishes to have this project completed within 1 week; in time to present for the upcoming board of directors meeting.

Engineering Notebook

- Brainstorming _____/5pts
- Concept Sketches
 - 1st Concept
 - Detailed Sketch with at least 5 labels _____/5pts
 - At least 3 notes about concepts _____/3pts
 - 2nd Concept
 - Detailed sketch with at least 5 labels _____/5pts
 - At least 3 notes about concepts _____/3pts
 - 3rd Concept
 - Detailed sketch with at least 5 labels _____/5pts
 - At least 3 notes about concepts _____/3pts
- Proper Engineering Notation _____/5pts
- Inventor Design & Drawing
 - Proper Multiview with correct part views _____/4pts
 - All views must have correct orientation
 - Front
 - Top
 - Isometric
 - Right-Side

- Properly Dimensioned (2pts per dimension) _____/8pts
 - Heights
 - Widths
 - Depths
 - Diameter or Radius of hole for keyring
- 3-D printed key chain _____/3pts
 - Successfully printed & assembled

Total Points: _____/50

Comments: