



PLATFORM SHOE ENGINEERING DESIGN CHALLENGE

You are the new shoe designer for Steve Madden. Your first big job is to design and construct a platform shoe with a heel that is two inches high. It is a well-known fact that the new company CEO is stingy with supplies! Your design team has been provided with only three file folders, four index cards and duct tape to create your new design.

REQUIREMENTS

- Build a platform shoe with a heel that is 2 inches high
- One group member must stand with the shoe on (without the shoe buckling) for at least 5 seconds.
- The shoe must be aesthetically pleasing.

MATERIALS for each group:

- 3 File folders
- 4 Index cards
- Duct tape (given out by the teacher or her assistants)
- Decorative accents

DIRECTIONS

1. Discuss your ideas and sketch your shoe design.
2. Build your shoe.
3. When directed to do so, test your shoe!

Name: _____

STEM Challenge

Ask

Imagine

Plan

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Create

Improve