

THE PLANTER CHALLENGE

INTRODUCTION:

ADDITIONAL PARAMETERS AND EXPECTATIONS:

- The seeds must be dropped by the machine
- The seeds must be dropped in intervals
- At least one simple machine must be employed
- You may only use the materials provided to the class

BRAINSTORM AND DESIGN

1. How will the planter move down the row?

2. What's the best way to make a single seed drop?

3. How will you direct the seed onto the masking tape?

DESIGN A GROUP PROTOTYPE

BUILD, TEST, EVALUATE, AND REDESIGN

Use the materials to build your planter. Then test it by adding seeds and dropping them in a line. When you test, your design may not work as planned. When engineers solve a problem, they try different ideas, learn from mistakes, and try again. The steps they use to arrive at a solution is called the design process. Study the problems and then redesign.

FOR EXAMPLE, IF...

DESIGN PROBLEMS

OUR SOLUTIONS

REFLECTION
