

Engineering Apple Containers

Criteria for Product

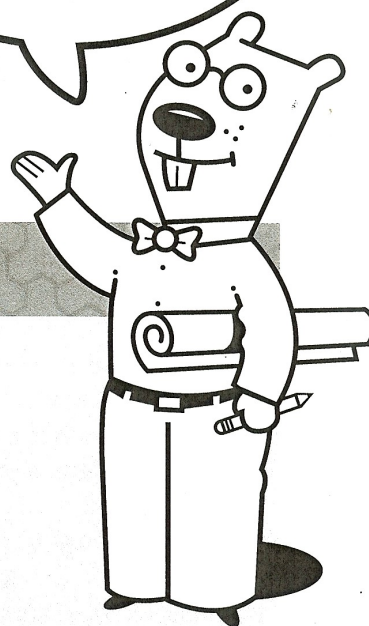
- Must be easy to carry
- Must have handles of some kind
- Must be large enough to hold at least three apples
- Must hold the apples without anyone's hands under it
- Apples must stay in container while it is carried 10 steps

Constraints for Challenge

- May choose materials only from the ones provided
- Must complete each stage in the time allowed

Challenge

It's harvest time! Students design and build easy-to-carry containers to hold as many apples as possible.



Materials

Apple Container Materials (for class)

- 10+ apples, various sizes
- 1 roll of aluminum foil
- 1 roll of waxed paper
- 16+ foam trays
- 100 assorted index cards
- 50 paper plates
- 1 box of craft sticks (about 300)
- 100 sheets of paper
- 1 box of sandwich bags
- 50 straws
- 1 box of paper clips
- 2 rolls of clear tape
- 1 roll of yarn or string

Tools

- Scissors
- Hole punch

Additional Materials

- Chart paper
- Job card sets
- Markers
- Plain paper
- Pencils
- Digital timer
- Digital video camera (optional)