



Junkyard Challenge

Description	Teams must construct a device to solve an engineering problem using a defined list of building materials.
Time Limit	30 Minutes Build Time, 5 Minutes Testing
Team Size	Up to 3 Students
Details	<ul style="list-style-type: none"> ➤ Materials will be provided in a “junk box”. ➤ The junk box will contain: <ul style="list-style-type: none"> ○ Up to 3 plastic golf balls ○ Up to 3 regular golf balls ○ Up to 3 tennis balls ○ Plates (10 ½ inch), Cups and Bowls made from paper or Styrofoam ○ Paper or plastic straws ○ Popsicle/Craft Sticks ○ Toothpicks ○ Spools of string, line, thread or tape ○ 8 ½ x 11 paper ○ Rubber bands ○ Plastic Bags 1 gallon or smaller ○ Scissors ➤ Teams may not modify their device after the building time is over. ➤ Teams will be presented a choice of two challenges on competition day. Examples include building a bridge that supports a ball within a cup, a tower that supports a ball within a cup, a ramp that transports balls to a collection area, a catapult, etc.
Competition Scoring	<ul style="list-style-type: none"> ➤ Points will be awarded based on the parameters of the specific challenge. ➤ Total points will fall between 40 and 60 points.
Notebook Requirements	<ul style="list-style-type: none"> ➤ Practice Challenge Analysis Worksheet (2) ➤ Notebook Points: 20
Timeline	Practice Challenges: Competition Day:





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