

JUNKYARD CHALLENGE - AN OVERVIEW

Objective:

Students will build a designated structure (tower, bridge, cantilever, catapult, or bouncer) within 30min using only the materials they brought with them.

Supplies Needed:

1. All materials and tools must be brought in a “junk box” with a lid, with outside dimensions not to exceed a total of 95 cm (length + width + height).
2. MUST bring at least one of each of the types of balls
 - a. Up to 5 standard, unaltered practice golf balls - Plastic, dimpled or with holes
 - b. Up to 8 standard, unaltered golf balls
 - c. Up to 10 standard, unaltered tennis balls
3. Plates, cups, and bowls made from paper or Styrofoam - MUST bring at least 1 cup and 1 plate
4. Paper or soft plastic straws, hollow stir sticks (Limited to 24 cm & without wrappers)
5. Popsicle sticks, and/or toothpicks made of wood
6. (NOT tongue depressors)
7. Any type of non-metallic tape – Duct Tape Rules!!!!
8. Paper (20 lb or less paper, no larger than 8 ½ x 11)
 - a. NO cardstock, construction paper, poster board, etc.
9. Non-metallic string or thread
10. Rubber bands no larger than size #64 (1/4 inch wide)
11. Plastic and/or freezer bags (sandwich, quart, or gallon size)
12. Writing implement– not to be used as part of any device, only used for labeling the device
13. Allowed tools – scissors, needles, etc.
Must not be used as part of any device
14. Materials in the box must not be preassembled or prepared ahead of time in any way.

The Competition:

- The device must be built on-site by the participants using only the materials brought in their junk box.
- The Event Supervisor must determine which challenge will be used at a tournament.
- Team members are given the challenge type when they enter the competition area to construct.
 - If the structure is a tower, cantilever, or bridge the event supervisor will also tell the students which ball it must hold.
 - If the structure is a catapult, ramp, or bouncer STUDENTS may choose which ball it must hold.

***Please refer to the rulebook if you have any questions.