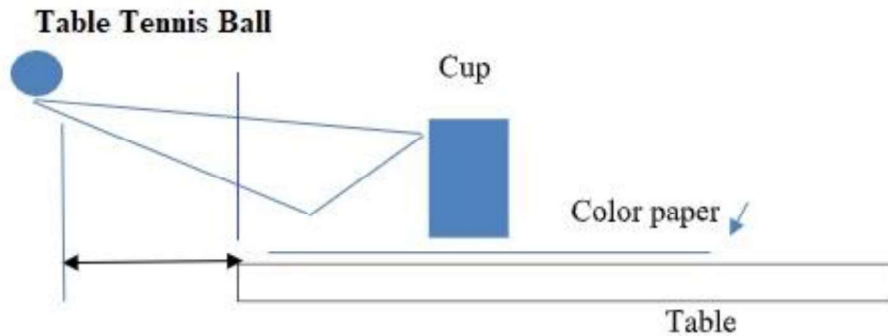


Middle School Technology Problem Solving On-Site Challenge

Challenge:

Using **only** the items listed below from the materials list, design and build a solution that will support a table tennis ball the **greatest distance** (in a horizontal line) over the edge of the table.



Materials:

Each team will receive a packet containing the following items:

Ten (10) craft sticks	One (1) plastic solo drinking cup
Five (5) drinking straws	One (1) table tennis ball
Five (5) 3"x5" note cards	One (1) tennis ball
One (1) 8.5"x11" color paper card stock	

Useable materials from the team tool box/container (can be a part of the solution):

- Masking tape
- Use only your toolbox, materials, and the provided supplies to build your solution. Any other items or tools cannot be part of your solution – only the materials listed above.
- You must wear proper eye protection and follow all other rules in the TSA Competitive Events Guide.
- **The measurement will be the greatest distance over the edge of the table in a horizontal line. The entire solution must be above the horizontal plane of the top of the table.**
- The entire solution must be supported on the color paper card stock while it's on the table surface.
- The outermost edge of the table tennis ball must be clearly visible for the measurement.
- The color paper card stock is the only portion on the solution that can touch the table surface.
- Tape cannot touch the table.
- The color card stock **cannot** be cut or altered in any way and must remain in the original shape.
- You are allowed to cut/break the craft sticks and the drinking straws.
- The solution can only make contact with the top surface of the color paper card stock.
- If any part of the solution (other than the bottom of the color paper card stock) touches the table surface, the distance will be recorded as 0 (zero) inches.
- The solution will be evaluated at the team table (workspace) while resting on the table surface.
- The time limit will be announced by the event coordinator.