

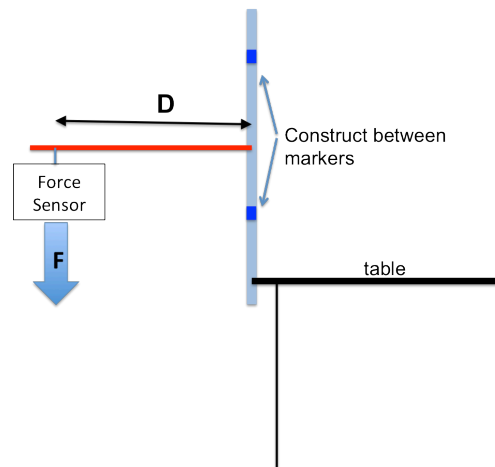
# Yale Physics Olympics

Team Name: \_\_\_\_\_

## Wicked Over Hang

**MATERIAL:** 1 Metal stand  
15 Straws  
1 Tape dispenser filled with 1 packet of tape  
1 200 gm weight for testing

**OBJECT:** To construct a wicked over hang from straws and tape that can support a force,  $F$ , exerted at some horizontal distance,  $D$ , from the post. Judges will record maximum force applied by the force sensor until the construction fails (i.e. a straw/tape snaps/breaks). Teams are provided with sample weights for basic testing purposes only.



**SCORING:** Maximize  $F \times D$

Maximum force recorded on sensor

Distance away from stand weight was hung

Score

$F =$
$D =$
$F \times D =$