

Worthington Science Day

Engineering Design Challenge 2014

Grades 4-6

The Challenge:

Some Worthington students want to be able to eat lunch outside on nice days. This would be easier to do if there were tables for students to put their lunch trays on. The district has some extra flexible tiles that could be used for these tables. Your team is being asked to design and test an idea for one of these tables.

The Details:

These things need to be true about the table:

- 1) You can only use the tiles and tape we give you.
- 2) You can't use any more materials than what we give you.
- 3) The table top needs to be at least as big as a Worthington cafeteria tray.
- 4) The table needs to hold at least 1000 g.
- 5) The table can't lean against anything else.
- 6) The table top surface needs to be at least 13 inches above the ground.

How to Win:

The winner of the competition will be the design that holds the most weight before the table breaks or falls over.

Other Rules:

- Your team will get one set of practice materials to try out some of your ideas. Then you can get a second set to build your final design.
- You will have **45 minutes** to make a final table. Then the judges will ask you to help them test it.