

Spaghetti Bridges

Mrs. Tidona gave her class an assignment to build a bridge out of spaghetti that could hold up to 10 cans of food and not break. Your bridge must be:

- One foot in length
- Five inches wide
- You must have a complete blueprint of your bridge
- Use a bridge design technique (truss, beam, arch, suspension)
- Tape is only for reinforcing joints and corners

Supplies that may be used to construct your bridge:

- 1 box of spaghetti
- 1 roll of tape
- 3 yards of string
- 20 rubber bands

As the teams presented their projects, they explained their individual ideas and how they came to a group consensus. Mrs. Tidona would ask them what they found to be their greatest challenge. One team honestly replied, "teamwork." When working in groups melding different visions of a finished product often complicates the process. Learning the art of compromise is a skill we all have to master.





Then the teams would set up their bridge.

Next the cans were placed on the bridge. This bridge design did not survive even one can.



This bridge held five cans, but because it was rounded it tipped forward.



Brooke, Britany, and Dylan are the last group to discuss their bridge design.



To their great delight, their bridge held all ten cans. Congratulations!

A great hands-on project and fun way to learn. Thanks Mrs. Tidona for sharing this interesting class project.