Constraints of the earthquake challenge

- You may use only the supplies provided which includes scissors and rulers.
- You must build a structure that will survive a mild earthquake simulation.
- The structure will rest on top of the earth (a layer of gelatin). The structure is not attached to the earth layer.
- 4. The structure must be at least 3 floors tall. It can be any size or shape.
- 5. You will build the structure completely before placing it on the earth layer for testing.
- 6. Test your structure by sitting it on the earth layer and shaking. You may improve your structure after testing it.
- 7. Your final structure will be presented and tested with the entire class.

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- You may use only the supplies provided which includes scissors and rulers.
- 2. Your pipeline must connect from an elevated tank to an ending tank.
- 3. The pipeline must be at least 100 cm long.
- 4. The pipeline cannot touch the ground.
- 5. The tanks may be secured to the table top.
- 6. A minimum of leakage will be allowed.
- 7. You may test your pipeline while building it in order to make needed improvements.
- 8. You will share your finished pipeline and demonstrate it to the entire class.

Constraints of the Windmill Challenge

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- 1. You may use only the supplies provided which includes scissors and rulers.
- 2. Safety rules must be followed as you are building. Bring devices to the safety table as needed.
- 3. Your tower must be free-standing and movable.
- 4. The turning mechanism must be securely attached to the tower and turn freely.
- 5. You may test your windmill as much as is needed in order to determine the adjustments to be made.
- 6. Your final windmill may be decorated.
- 7. Each team will present its windmill and demonstrate how it works.