



Strongest Shapes

What You Need:

- 10 3x5 index cards
- Tape
- Object to hold up (like a cell phone)

Challenge: Can you build a structure that can hold a load and not fall apart?

Explore different shapes – make a square, a triangle, and an arch with the index cards – which shape is the strongest?

Use the strongest shape to build your structure.

Success Criteria: Your structure must support the weight of your object.

Engineering Constraint: You can use tape to hold your structure together, but you can't tape it to the table or floor.

Did you succeed? Now make your structure even stronger!

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