

# 15 Days of Winter Break

## Stand on a Paper Cup (without breaking it)

### What You Need:

- paper cups
- cardboard



Photo from science-sparks.com

### Instructions:

1. Space several cups evenly. Place a sheet of cardboard over them.
2. Stand on it! The cups should hold your weight.
3. Add a second layer of cups and cardboard. Ask a bigger person to stand on it. Do the cups hold their weight too?

### How does this happen?

When standing on one cup, all the weight is pushing down on the cup, compressing it. Arranging the cups spaced apart with the piece of cardboard on top allowed the weight to spread out. This means that there isn't too much weight on any one cup.



Photo from science-sparks.com

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