Imploding Can Experiment



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# INTRODUCTION

Today I am experimenting with air compression.

# HYPOTHESIS

I think when the can goes into the ice cold water it will crumple up like crispy bacon.

# MATERIALS

1. An empty aluminum can
2. !ce cold water
3. Tongs
4. Hob

# PROCEDURE

1. Fill the can with 4 tablespoons of water
2. Heat the can until the water starts to boil
3. When it is hot enough remove the can with the tongs
4. Submerge it in the ice cold water and watch the can implode

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# DATA

|  |  |  |
| --- | --- | --- |
| Attempt | Results | Things to change |
| 1 | FAIL | Increases length of time heating |
| 2 | FAIL | Increase amount of ice cubes |
| 3 | INCONCLUSIVE | Increase amount of water in the can |

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# RESULTS

1. The first time we did the experiment, the can did NOT implode. We changed the length of time the can was heated for the second attempt.
2. Our second attempt, the can did NOT implode again. For our next attempt we will increase the amount of ice cubes in the bowl.
3. Third and final attempt. There were slight dents in the can but not as impressive as I would have liked to see.

# CONCLUSION

At the end of this experiment, I thought the last attempt was the best to show imploding can. But it didn’t implode as much as I thought it would so I think the results were inconclusive. The can could have become weaker by the third attempt.

