

Title of Experiment

Shopping bags.

Purpose/Introduction

To see which bag can hold the most or which material of bag to use.

Hypothesis

My hypothesis is that the material bag will hold the most. Then the reusable bag will hold the second most amount. I think that the plastic bag will hold the third amount and the paper bag will hold the least.

Materials

- At least 4 different bags that can be used to hold shopping. For example: plastic bag, paper bag, material bags. See examples below.
- Some items of shopping. For example: milk, cereal box, pasta, cans, fruit, vegetables.

| Reusable and recycled bag | Plastic Bag | Paper Bag | Material Bag |
|---|---|---|---|
|  |  |  |  |

Method

Use one bag at a time and place each item of shopping inside. Fill the bag until it can either hold no more shopping or you cannot lift it.
Observe how many items each bag can hold.
Observe what happens to the material as you fill the bag.

Results/Data

| Bag Description | How many items it can hold | What happened to the material? | Further Notes |
|-----------------|----------------------------|--------------------------------|---|
| Reusable bag | 14 | It turned in and kept stable. | It was light and easy to carry. |
| Plastic bag | 14 | I pushed the bottom down. | It looked like the bag was going to rip and |

| | | | |
|---------------------|-----------|--|---|
| | | | it was very crammed |
| Paper bag | 14 | The paper bag looked like it was going to break and everything was going to fall out. | You could see the items poking from the sides. |
| Material bag | 14 | It stayed the same but the material pulled the bag down | The material and the reusable are the same. |

Discussion

All of the bags held the same amount of items but had different effects on the actual bag itself. The material and the reusable bag are more reliable because they were light but could hold a lot. Meanwhile the plastic and the paper bag were heavy and felt like they were going to break and the stuff that was inside it was going to fall out.

Conclusion

You should use the material bag and the reusable bag more often as they were light and held a lot. The other bags were not light and you should not use them more than any of the other bags. This experiment is useful because now you know what bag you should use more often