**Soda Can Crusher Design Challenge Materials**

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| --- | --- | --- | --- | --- |
| Materials | Picture | Quantity | Size | Website |
| Pegboard |  | 1 full size board | Product number 974626 | Carolina Biological Supply  974626 - PEGBOARD ,24 X 14 X 1/4" |
| L Shape Corner Brace Joint Right Angle Bracket |  | Approximately 10 pieces | 2 2 5/8 | https://www.mcmaster.com/#corner-brackets/=15o15m7 |
| Socket Head Cap Screw |  | 1 box=100 pieces | 10-32 x 5/8 | <https://www.mcmaster.com/#=15o12vr> |
| Hex Nuts |  | 1 box= 100 pieces | 5/8 | <https://www.mcmaster.com/#hex-nuts/=15o1d8r> |
| Flat Washer |  | 1 box= 100 pieces | 18-8 Stainless Steel  No. 10 | https://www.mcmaster.com/#standard-flat-washers/=15o16h3 |
| Standard adjustable wrench |  | One per group | Any size | It can be found in any hardware store |
| Hex Key Set |  | One set per group | It comes in various size | It can be found in any hardware store |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Customers | Do you think that you need a soda can crusher in your kitchen? | | | Have you ever considered buying a soda crusher? | | How much money are you willing to pay for a soda can crusher? | | | What qualities are you looking for in a soda can crusher?  Please rank on a 1-5 scale (5 is the most important) | | | | |
| YES | MAYBE | NO | YES | NO | $10-$20 | $20-$40 | $40-$60 |
| Ease of use | Reliability | Aesthetics | Portability | Space Needed |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Need Analysis Questions**

**Peer Evaluation Rubric**

**Feedback from Group \_\_\_\_\_\_\_\_\_\_for Group\_\_\_\_\_\_\_\_\_\_\_\_**

1-lowest score and 5-highest score

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| --- | --- | --- |
|  | **Strengths** | **Weaknesses** |
| **Ease of use**  **1 2 3 4 5** |  |  |
| **Reliability**  **1 2 3 4 5** |  |  |
| **Aesthetics**  **1 2 3 4 5** |  |  |
| **Portability**  **1 2 3 4 5** |  |  |
| **Space Needed**  **1 2 3 4 5** |  |  |
| **Suggestions for Improving the Overall Design** |  | |