**Zhu Zhu Materials and Costs Sheet**

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| **Material** | **Number** | **Cost per Item** | **Total Cost** |
| 4”x12” tin foil |  | $1 |  |
| 12” Masking tape |  | $1.50 |  |
| 12” Plastic string |  | $1 |  |
| 12” Piece mesh fabric |  | $1 |  |
| 12” Yarn |  | $1 |  |
| 4 clothes pins |  | $1 |  |
| 4 Pipe cleaners |  | $1.50 |  |
| 4”x6” Cardboard |  | $2 |  |
| 1 Toilet paper roll |  | $1.50 |  |
| 4 Straws |  | $1 |  |
| 4 Paper clips |  | $0.50 |  |
| 4 Craft sticks |  | $1.50 |  |
| Rock |  | $2 |  |
| Gallon plastic bag |  | $1 |  |
| 2 Binder Clips |  | $1.50 |  |
| Piece of Paper |  | $1 |  |
| 12”x12” bird mesh |  | $2 |  |

Our total cost for our trap is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Criteria:

* Contains or immobilizes the Zhu Zhu pet for at least 10 seconds
* The trap must be free-standing (i.e. not taped down)
* The trap must be placed at a distance greater than 16 inches from the Zhu Zhu starting release point

Constraints:

* A $10 budget
* No hands may enter the testing area at any time during testing
* Nothing may be dropped into the testing area
* There is a one-minute testing time limit per group and if the Zhu Zhu is not immobile by one minute then their turn is over
* A time limit of 25 minutes total to design and build the trap, if the entire lesson is spaced for an hour