

Fidget Spinner Design Worksheet

Data Tables

Table 1. Prototype Design Costs

Material Used	Quantity	Extended Cost
Total Cost		

Table 2. Final Product Costs

Material Used	Quantity	Extended Cost
Total Cost		

Table 3. Final Product Testing

Trial	Spin time (s)
1	
2	
3	
4	
5	
Average	

Post-Lab Analysis

1. Consider the results of the *Introductory Activity*.
 - a. Describe your observations as more weight was added to the spinner.

 - b. What effect did the placement of paperclips appear to have on the motion or spin time of the spinner? Give a possible explanation.

 - c. How did the results of testing compare with your prediction?

2. How much money was spent during the design process? Estimate how much of that cost was attributed to waste.

3. What is the final cost of the toy fidget spinner?

4. Write a letter to FlinnToy summarizing your design initiative. Give the total cost for the manufactured toy. What is the longest and the average spin time of your toy? Why should the company pick your design?