



Team Name(s): _____

Date: _____

Power Source: _____



First Round of Prototyping (Build and Test)

Track your detailed test results below

Design #	Test #	Used Assigned Power Source	Device Stayed Intact	Past Finish Line	Time (Speed)	Additional Data (ex: Distance Traveled)
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



Pros of using this kind of power source



Cons of using this kind of power source





What changes would you make to your design next? Why?



Part I: Power Source Groups


Compile and summarize data for your team’s test results and the other groups that had the same power source in this chart.

Team #	Team Name	# of Tests	Device Stayed Intact 3 Times in a Row	Device Crossed Finish Line 3 Times in a Row	Fastest Time
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

 Pros of using this kind of power source 	 Cons of using this kind of power source
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 **How would you improve your design as a result of this data?**



 Make changes to your design based on what you learned from other team’s data. You do not have to use the power source you were assigned.

 Which of the three power sources are you using?

 What made your team decide to use this power source?

 **Second Round of Prototyping (Build and Test)**
Track detailed test results on your new design below

Design #	Test #	Used Assigned Power Source	Device Stayed Intact	Past Finish Line	Time (Speed)	Additional Data (ex: Distance Traveled)
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

 What did you learn from the data analysis that helped you improve your design?

 Would your team make any other changes if you had more time?