

# Lunar Design Challenge Data Capture Sheet

## 1. Who are the engineers on your team?

Project Manager:	Manages time and criteria
Materials Manager:	Gathers supplies; lists materials used
Cost Analyst:	Records and totals the amount spent
Data Analyst:	Records the data for each trial
Communications Specialist:	Spokesperson for the team; presents one minute summary

## 2. Imagine the possibilities: Brainstorm!

## 3. Make a plan. Predict what will happen.

## 4. Design and build. Find the mass of your design using the scale (no more than 500 grams).

## 5. Test. Revise. Repeat. Circle your best distance.

### DESIGN 1

Mass: _____ grams	Distance Traveled
Trial # 1	
Trial # 2	
Trial # 3	

### DESIGN 2

Mass: _____ grams	Distance Traveled
Trial # 1	
Trial # 2	
Trial # 3	

### DESIGN 3

Mass: _____ grams	Distance Traveled
Trial # 1	
Trial # 2	
Trial # 3	

## 6. Calculate the cost of your first product (no more than \$500,000).

Item	How many?	Cost, each	Subtotal
Cardboard box, new		\$90,000	
Recycled materials		\$50,000	
Wheels, any size		\$45,000	
K'Nex pieces, any		\$25,000	
Wooden axle		\$25,000	
Extra washers		\$10,000	
Pipe cleaners		\$1,000	
Rubber bands		\$500	
Duct tape, 15 cm piece		\$250	
Masking tape, 15 cm piece		\$200	
		<b>GRAND TOTAL:</b>	<b>\$</b>

<b>Additional materials/costs for Design 2:</b>
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<b>Additional materials/costs for Design 3:</b>
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