

Rubber Band Car Challenge

Name: _____

Score Sheet for 2024 Science Buddies Engineering Challenge

Date: _____

1. How far did your rubber band car travel in **centimeters**? _____

(If you measured in inches, multiply inches by 2.54 to convert to centimeters.)

2. Use the table below to calculate your **total materials points**.

- Enter the quantity for each item used in your final design. Materials used for earlier prototypes do not count.
- You cannot use more than the maximum allowed quantity for each item.
- If you use any portion of a piece of paper, it counts as one whole sheet of paper. The same rule applies for all materials. Do not enter fractions or round quantities down.
- Add up all the subtotals to calculate your total materials points.

Item	Maximum Allowed	Number you used	x points (each)	= points subtotal
CDs or DVDs	4		2	
Plastic bottle caps	4		2	
Paper	10		1	
Wooden pencils	10		1	
Straws	10		1	
Wooden skewers	10		1	
Paper clips	10		1	
Sheets of cardboard	2		10	
Rubber bands	10		2	
Tape	1		5	
Total materials points				

3. Calculate your total score using this equation:

$$(2 \times \text{distance in centimeters}) - \text{total materials points} = \text{Total Score}$$

4. Round your Total Score to the nearest whole number:

(The Engineering Challenge submission form will not accept decimals.)

Final Score