

Score Sheet for 2018 Fluor Engineering Challenge

Distance points

Your distance score is based on the longest distance (in centimeters) you *successfully* launched and received the ball (the ball lands and stays in the receiver without ever touching the ground). Distance is measured from the front of the launcher’s cardboard base to the closest point on the receiver.

$$\frac{\text{_____}}{\text{distance in centimeters}} \times 50 = \frac{\text{_____}}{\text{distance points}}$$

Materials points

Your materials points are based on the materials you used in your *final* design.

- Materials used in earlier prototypes do not count.
- You cannot use more than the maximum allowed quantity for each item.
- Points are not pro-rated. If you cut a piece of paper in half and only use half of it, it still costs 10 points. This also applies to the tape – whether you use just one piece of tape or the entire roll, it costs 100 points.
- Fill in the “Quantity used” column, and then multiply by the “Points each” column to calculate the subtotal for each material.

Item	Max allowed	Quantity used	Points each	= subtotal
Paper or plastic cups	4		50	
Wooden ruler/ paint stirrer	2		100	
Paper (letter or A4 size)	10		10	
Wooden pencils	10		10	
Rubber bands (size 32)	10		20	
Paper clips	10		5	
Roll of clear tape	1		100	
Total materials points				

Total Score

$$\frac{\text{_____}}{\text{Distance points}} - \frac{\text{_____}}{\text{Materials points}} = \boxed{\frac{\text{_____}}{\text{Total Score}}}$$