

B2-Zip Line Car Race & Speed Calculations

Score Card

Team I.D.: _____

Transition Time (Should be ≤ 3 mins. or zero points): _____ Points (0 or 3): _____

1. Build & Test Zip line carriage

(Complete at approximately 11 minute mark)

2. Race carriages

| | Place (1st or 2nd) | Time (sec) | Speed (m/s) | 25 - (PI + T) + Calc | |
|------------------------------------|--------------------|------------|-------------|----------------------|--|
| Race A1 | | | | | |
| Race A2 (switched lines & pulleys) | | | | | |
| Student Speed Calc. | Race A1 | | | Pts (0 - 1) | |
| | Race A2 | | | Pts (0 - 1) | |

(Complete at 17 minute mark)

Points (0 - ~15): _____

3. Modifications to carriage

(Complete at 22 minute mark)

| | Place (1st or 2nd) | Time (sec) | Speed (m/s) | 25 - (PI + T) + Calc | |
|------------------------------------|--------------------|------------|-------------|----------------------|--|
| Race B1 | | | | | |
| Race B2 (switched lines & pulleys) | | | | | |
| Student Speed Calc. | Race B1 | | | Pts (0 - 1) | |
| | Race B2 | | | Pts (0 - 1) | |

(Complete at 28 minute mark)

Points (0 - ~15): _____

Clean-up thoroughness (allow 2 minutes. Great/Okay/Not good): _____ Points (0 - 2): _____

TOTAL POINTS (35 Possible): _____