

2011 Optics Score Sheet B/C (rev 11/21/2010)

Full School Name: _____ (circle one) V JV1 JV2 JV3 JV4

Full Student Names: _____

$$\text{Part 1: Geometric Optics} = \frac{\text{_____}}{\text{\# correct}} / \frac{\text{_____}}{\text{\# possible}} = \frac{\text{_____}}{\text{\% correct}} \% \times 30 = \frac{\text{_____}}{\text{Final geometrics score}}$$

$$\text{Part 2: Physical Optics} = \frac{\text{_____}}{\text{\# correct}} / \frac{\text{_____}}{\text{\# possible}} = \frac{\text{_____}}{\text{\% correct}} \% \times 30 = \frac{\text{_____}}{\text{Final physical score}}$$

$$\text{Part 3: Laser Shoot Time} = 300 - \frac{\text{_____}}{\text{Time (sec)}} = \frac{\text{_____}}{\text{remaining time}} / 30 = \frac{\text{_____}}{\text{Final time score}}$$

$$\text{Part 4: Laser Accuracy} = 30 - \left(\frac{\text{_____}}{\text{Distance from target to laser point (mm)}} / 10 \right) = \frac{\text{_____}}{\text{Final Accuracy score}}$$

**If distance from target is greater than 300mm, set Accuracy score to 0.

Attach this scoresheet to the optics field diagram and student response sheets

TOTAL SCORE: SUM OF ALL 4 PARTS ABOVE = _____

Final Rank: _____