

# VEHICLE DESIGN ENGINEERING EVALUATION FORM

Entrant's Name:

Entrant's School:

Entrant's Teacher:

Level I or II (circle)

## RULES AND REGULATIONS CHECKLIST

Check items/requirements met:

Body specifications

- \_\_\_\_\_ 1.Length - 170 mm Minimum, 300 mm Maximum
- \_\_\_\_\_ 2.Width - 30 mm Minimum, 90 mm Maximum (Front and Rear at axles)
- \_\_\_\_\_ 3.Height at Rear - 55 mm Minimum, 80 mm Maximum
- \_\_\_\_\_ 4.Material - Any type of material is allowed. Multiple-pieces are allowed for body construction
- \_\_\_\_\_ 5.No wet surfaces!

Axle, Bearing, and Wheel Specifications

- \_\_\_\_\_ 6.Axle Size - no limits
- \_\_\_\_\_ 7.Axle Material - any material
- \_\_\_\_\_ 8.Axle Location, (centerline) - minimum 5 mm from the bottom of the blank; maximum 15 mm

Drawing Specifications

- \_\_\_\_\_ 9.Drawing must be full scale and metric.
- \_\_\_\_\_ 10.Drawing must include the three principle views of the model.
- \_\_\_\_\_ 11.Drawing must include a title block with appropriate information.
- \_\_\_\_\_ 12.Title block must have student and school name blocked from viewing.

## JUDGE SCORING

- \_\_\_\_\_ 13.Construction/Craftsmanship - 30 points
- \_\_\_\_\_ 14.Design Appearance (Design Theme for Year followed) - 20 points
- \_\_\_\_\_ 15.Design Finish - 20 points
- \_\_\_\_\_ 16.Drawing Accuracy - 5 points
- \_\_\_\_\_ 17.Drawing Neatness - 5 points
- \_\_\_\_\_ 18.Drawing Dimensions/accuracy - 5 points
- \_\_\_\_\_ 19.Drawing Point-to-Point contact - 5 points
- \_\_\_\_\_ 20.Drawing Line Quality - 5 points
- \_\_\_\_\_ 21.Drawing Irregular Curves - 5 points

\_\_\_\_\_ **ANY RULES AND REGULATION CHECKLIST VIOLATION (-20 POINTS)**

\_\_\_\_\_ **TOTAL SCORE - 100 POINTS**

\_\_\_\_\_ **ENTRANT RANKING**

