

# BRIDGE 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:

The student entering the bridge must provide the following:

- \_\_\_\_\_ All idea sketches relative to the bridge being tested.
- \_\_\_\_\_ A full size set of elevation drawings of the proposed bridge.
- \_\_\_\_\_ A bridge corresponding to the set of drawings for testing.
- \_\_\_\_\_ 1. Minimum width of 50 mm
- \_\_\_\_\_ 2. Minimum length (bridge/roadway) of 250 mm and Maximum length of 300 mm
- \_\_\_\_\_ 3. Maximum roadway height of 30 mm or less
- \_\_\_\_\_ 4. Maximum bridge mass of 28 grams or less
- \_\_\_\_\_ 5. Maximum lengthwise laminations of 2. Lengthwise defined as length of beam.
- \_\_\_\_\_ 6. Bridge has a \***superstructure** which allows 50mm x 50mm x 300mm vehicle to pass **through** the bridge

## JUDGE SCORING

Bridge efficiency will be determined by the formula:

- \_\_\_\_\_ **BRIDGE WEIGHT IN GRAMS**
- \_\_\_\_\_ **BRIDGE FAILURE WEIGHT IN GRAMS**
- \_\_\_\_\_ **TOTAL SCORE - BRIDGE EFFICIENCY %**
- \_\_\_\_\_ **ANY RULES AND REGULATION CHECKLIST VIOLATION**  
**(-20% OF BRIDGE EFFICIENCY Per VIOLATION)**
- 3 OR MORE VIOLATIONS WILL RESULT IN DISQUALIFICATION**

## **ENTRANT RANKING**

\_\_\_\_\_

\*Superstructure (defined) – The parts of a bridge's structure above the main deck, usually connected with cross bracing to opposite sides.