

# SYRINGE ROBOT ARM COMPETITION EVALUATION FORM

Entrant's Name:

Entrant's School:

Entrant's Teacher:

Level I or II (circle)

## RULES AND REGULATIONS CHECKLIST

Check items/requirements met:

- \_\_\_\_\_ 1.Entries may be individual or a maximum of five (5) students.
- \_\_\_\_\_ 2.Manipulators are hand operated by the builder.
- \_\_\_\_\_ 3.Base of the robot is under a maximum of 20" x 30". NO other size limitations.
- \_\_\_\_\_ 4.Power source is either or combination of hydraulic, pneumatic, and electrical.
- \_\_\_\_\_ 5.Students provided two (2) blocks (2" x 2" x 2") with a hole through the center to hold eggs.
- \_\_\_\_\_ 6.Students provided a clear plastic container (3" x 5" x 6" or smaller) in which to immerse the eggs.
- \_\_\_\_\_ 7.Students provided enough fresh and unboiled eggs to dunk one time each in a four (4) minute time span.
- \_\_\_\_\_ 8.Students had two (2) minutes at the starting bench to arrange the egg work-cell.
- \_\_\_\_\_ 9.Each group had one (1) person as a pit crew to handle eggs and to help with any repairs during the competition.

## JUDGE SCORING

Explanation of scoring:

- 1.Safety - Spillage of water, Breakage of eggs
- 2.Time Limit - Number of eggs cycled completely in 4 minutes
- 3.Immersion - Eggs must completely immersed in water
- 4.Grippers - Located at top center of water container when competition begins.
- 5.Egg count - Falls in to water or onto robot arm base - 0 points
- 6.Egg white - Moistens outside of a crack - 0 points
- 7.Egg yolk - Visible within a broken shell Disqualification
- 8.Egg falls from block B - 0 points
- 9.Eggs must be fully released into block B after completing the assigned sequence.

\_\_\_\_\_ **ANY RULES AND REGULATION CHECKLIST VIOLATION - (-5 EGG PENALTY)**

\_\_\_\_\_ **TOTAL SCORE - NUMBER OF EGGS CYCLED COMPLETELY IN 4 MINUTES**

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

