

# National Science Olympiad 2010 - Junkyard Challenge "It's A Snap" B

This is to be used with the excel spreadsheet found at [www.soinc.org](http://www.soinc.org)

Team Number: B\_\_ Team Name: \_\_\_\_\_

Student Names: \_\_\_\_\_ Final Score: \_\_\_\_\_

**Do not write below this line.**

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## Construction Requirements

- |   |   |   |
|---|---|---|
| 1. All materials fit inside the box with closed lid $\leq$ 40.0 cm x 40.0 cm x 60.0 cm  | Y | N |
| 2. Team brings all required materials: 1 unmodified golf ball, proper eye protection and 4 unmodified mousetraps (must be labeled 1,2,3,4 per intended order of activation) | Y | N |

## Competition Parameters

- |   |       |   |
|---|-------|---|
| 3. Team is prepared to run the device within the 30 minute setup period   | Y     | N |
| 4. Mousetraps are at 90 degrees apart   | Y     | N |
| 5. Team successfully drops the golf ball into the device at the central point                                       | Y     | N |
| 6. The device successfully trips all 4 mousetraps   | Y     | N |
| 7. Number of seconds the device operates up to task completion (maximum 60 sec, rounded down to the closest second) | _____ |   |
| 8. The device operates at least 5 seconds before any mousetrap is activated   | Y     | N |
| 9. Number of mousetraps activated by the device   | _____ |   |
| 10. The North mousetrap is activated first  | Y     | N |
| 11. The South mousetrap is activated second   | Y     | N |
| 12. The West mousetrap is activated third   | Y     | N |
| 13. The East mousetrap is activated fourth  | Y     | N |

## Penalties

- |   |       |   |
|---|-------|---|
| 14. Number of times the device is touched   | _____ |   |
| 15. Distance the North mousetrap off from the defined distance (rounded down to the closest cm) | _____ |   |
| 16. Distance the South mousetrap off from the defined distance (rounded down to the closest cm) | _____ |   |
| 17. Distance the West mousetrap off from the defined distance (rounded down to the closest cm)  | _____ |   |
| 18. Distance the East mousetrap off from the defined distance (rounded down to the closest cm)  | _____ |   |
| 19. Failure to attempt construction of device (No Show)   | Y     | N |
| 20. Disqualified (notify the team and their coach as soon as possible)                          | Y     | N |