

# State Science Olympiad 2009 Junkyard Challenge C – Tipping the Scale

Team Number: C\_\_ Team Name: \_\_\_\_\_

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

**Do not write below this line.**

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## Violations

1. Device is not autonomous	Y	N
2. Construction materials is not in an unmodified materials box <= 26cm x 31cm x 45cm with a lid that can be closed completely	Y	N
3. Required material does not significantly contribute to the A.D.	Y	N
4. Mystery material does not significantly contribute to the A.D.	Y	N
5. Unmodified materials do not remain unmodified throughout the competition	Y	N
6. Prohibited materials used	Y	N
7. AD exceeds 13 volts, or uses non commercial batteries	Y	N
8. Power tools are used	Y	N
9. Acid, bases, or flammable liquids are used	Y	N
10. "Warning" label laser used	Y	N
11. AD does not actually measure weight nor mass or student is not able to explain how the reading corresponds to their estimate	Y	N
12. Number of touches		_____

## Others

13. Participation Points Only (ie. Safety spectacles with side shields were not worn)	Y	N
14. Disqualified (notify the team and their coach as soon as possible)	Y	N

## AD measurements

14. Estimated Mass – the mass of the Challenge Object in grams as cited by the students.	_____
15. Official Mass – the mass of the Challenge Object in grams as cited by the judges.	_____
16. Height – Distance in cm between the highest point of the AD and the lowest surface	_____
17. Length – longest horizontal dimension of the AD in centimeters	_____
18. Time – In whole seconds rounded down from start of timing to transfer of estimate	_____