

# National Science Olympiad 2009

## Junkyard Challenge C – Coin Sorter

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 $\leq 26\text{cm} \times 31\text{cm} \times 45\text{cm}$ 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 sort the coins	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

Number of Coins:	15. Quarters	_____	16. Dimes	_____
	17. Nickels	_____	18. Pennies	_____
19. Height – Distance between the lowest point of the Coin Opening and the surface on which the AD rests rounded to the nearest cm				_____
20. Length – Longest horizontal dimension of the AD in cm, rounded to the nearest cm				_____
21. Bonus Seconds – Seconds remaining on the 60 second timer, rounded up to whole second				_____