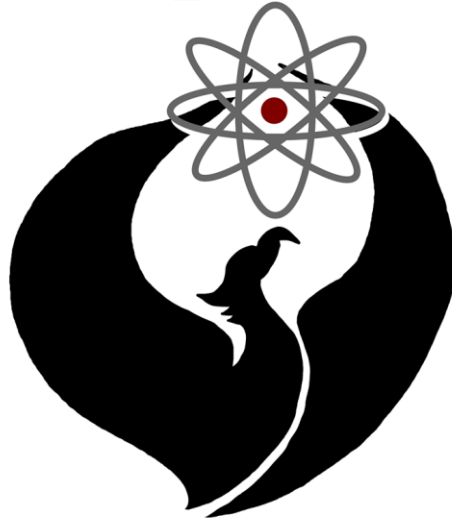


Optics



2018 University of Chicago Science Olympiad Invitational

Team Name: _____

Team Number: _____

Participant Names: _____

Raw Score: _____/84

Rank: _____

Time remaining (if applicable): _____

Optics Answer Sheet - UChicago 2018

TOTAL SCORE: ____/84

Team Name: _____

Team Number: _____

Problems (53 pts)

1. (5 pts) _____

2. (5 pts) _____

3.

a. (3 pts) _____

b. (3 pts) _____

4. (5 pts) _____

5. (5 pts) _____

6. (5 pts) _____

7. (5 pts) _____

8.

a. (4 pts) _____

b. (1 pt) _____

9.

a. (3 pts) _____

b. (1 pt) _____

c. (1 pt) _____

d. (2 pts) _____

10. (5 pts) _____

Questions (31 pts)

11. (2 pts) _____

12. (2 pts) _____

13. (2 pts) _____

14. (2 pts) _____

15. (2 pts) _____

16. (3 pts) green: _____

blue: _____

red: _____

17. (2 pts) _____

18. (2 pts) _____

19. (2 pts) _____

20. (2 pts) _____

21. (2 pts) _____

22. (2 pts) _____

23. (2 pts) _____

24. (2 pts) _____

25. (2 pts) _____