

# The Rules

The events for the 2023 Physics Olympics are:

## The Physics Bowl



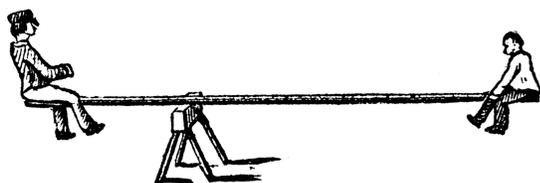
## Fermi Questions



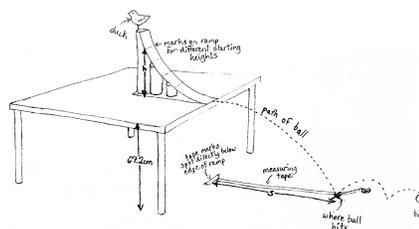
## On the Glidepath



## Something to Torque About



## Precisely Predicting Projectiles



1. Each school may send a single team of no more than 5 students. Additional students and spectators cannot be accommodated. Violation of this rule will result in disqualification of the team.
2. All participants and advisors must turn in a signed photo release form, copy enclosed.
3. Each team must have a faculty advisor. Faculty advisors will judge the events. At least two judges will judge each event. Judges will not evaluate their own school's team.
4. Each event is timed. Teams late for an event will forfeit that event.
5. Teams should bring scientific or graphing calculators for the Physics Bowl, and are encouraged to wear team T-shirts. Equipment, including calculators, for other events are limited to what is provided by the judges at each event, as outlined in these rules.
6. Accessing the internet is prohibited during competition; students are not allowed to use phones during events.
7. For each event, the total number of points for 1<sup>st</sup> place will equal the number of teams present. For example, if there are 16 teams competing:

1<sup>st</sup> place = 16 points

2<sup>nd</sup> place = 15 points

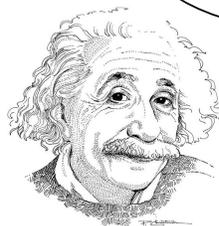
3<sup>rd</sup> place = 14 points

The last place team will score 1 point. Tying teams will split points equally for the places in question.

8. If two teams tie in overall points, their placement in the Physics Bowl will be the tiebreaker for overall standing.
9. Trophies will be awarded to the top three teams in each event and to the four teams that accumulate the most points overall.
10. A certificate will be awarded to the team with the best physics T-shirts, as determined by the judging panel of experts. The T-shirt award will *not* count towards the overall trophy.
11. All judges' decisions regarding events are final. The wording of each challenge in this year's event book has been carefully prepared to define each task as precisely as possible. It is expected that all participants will produce solutions which comply with the task as defined. Normal physical interpretations will be applied to all the terminology used in defining the tasks. Those solutions which, in the opinion of the judges, do not comply with the spirit or intent of the event will be disqualified. General questions regarding the events may be directed to the coordinators of the Physics Olympics. The coordinators will accept inquiries that may help them to prepare for unusually good solutions to the problem.
12. Students are required to remain with their team and in the designated areas at all times.
13. Any concerns regarding inappropriate behavior and/or conduct, including any form of harassment, must be brought to the attention of a LIPTA exec board member. Members will be present at the Physics Olympics or may be contacted at [exec@lipta.org](mailto:exec@lipta.org).
14. Text or email Justin King at 631-241-5404 or [king@lipta.org](mailto:king@lipta.org) if you have any questions.

## The Schedule

1. Events begin at 9:00 a.m.
2. If you are driving your own vehicle, contact Justin King to obtain a parking pass. Park in Student Lot #9, across the Great Lawn from Lupton Hall. Look for LIPTA signage.
3. Teams may pick up their materials between 8:30 and 9:00 a.m.
4. Team registration includes lunch (2 pizzas + soda).
5. Morning refreshments and lunch will be provided to faculty and students.
6. Trophies will be awarded at 12:45 p.m.



If only they had this when I was in school.