

Science Olympiad 2020-2021 Season Machines Checklist / Data Sheet

Version 1.0

Event and Construction Requirements

- 1. Competitors construct only 1 device
- 2.a. Competitors bring 1 3-ring binder
- 2.c. Device, diagram, and graphs/tables impounded
- 2.d. Competitors wear eye protection during testing
- 2.f. Competitors must be able to answer questions about the device per the Building Policy
- 3.a. Device fits in 100.0 x 100.0 x 50.0cm box
- 3.b. Div B: Device is class 1 lever, beam \leq 80.0cm
- 3.b. Div C: Device is class 1 lever in series with class 2/3 lever, beams \leq 40.0cm
- 3.c. Device has no electrical components
- 3.d. Device accommodates masses
- 3.d. Device has no springs
- 3.e. Competitors don't bring masses, unless fixed in place prior to impound

Graphs / Tables

- Data spans mass range (2 pts max) _____
- At least 10 data points (2 pts max) _____
- Proper labeling (e.g. title, name) (2 pts max) _____
- Number of graphs/tables (4 max) _____
- Labeled device picture/diagram (2 pts max) _____

Part I

Written test score _____

Team Information

Team #: _____

Team Name:

Competitor Names:

Part II

Elapsed Time (sec) _____

Mass ratio A/B (in decimal form) _____

Mass ratio B/C (in decimal form) _____

Penalties

Competition violations(s)	Y	N
Team didn't bring a device	Y	N
Didn't make honest attempt	Y	N
Construction violations corrected	Y	N
Missed impound	Y	N

Team Verification

4.II.h. I verify the event supervisor has reviewed with me my team's recorded device testing data.

Signature _____