



STORM THE CASTLE B

Team Checklist – 2022

Rank: _____
Tier: _____
Final Score: _____

Team Number: B School & Team Name: _____

Student Names: _____

Check In

 1. T F 7.i. Team operates safely and has a device that within spec before the end of the allotted competition period.

Construction Parameters:

- T F 3.a. When ready-to-launch, the launch device, projectiles, stabilizing weights, counterweights, and all other device components fit in a 65.0 cm per side cube.
- T F 3.b. The triggering device when activated, does not contribute significant energy to the launch. It extends out of the launch area, allow for competitors to remain at least 75 cm away from the launch area. It also does not pose a danger due to flying parts or excessive movement outside of launch area.
- T F 3.c. The launch device is constructed to accommodate the supervisor provided counterweights and projectiles and the team does not modify the counterweights or projectiles.
- T F 3.d. The launch force is entirely supplied by the gravitational potential energy from the supervisor provided falling counterweights. The device, without the counterweight and projectile, does not contribute energy to the launch.
- T F 3.e. The launch device is designed and operated in such a way to not damage or alter the floor.
- T F 3.f. Electrical components are not part of the device or triggering device.

DEVICE MEETS ALL CONSTRUCTION PARAMETERS ABOVE DURING INSPECTION

(Devices that do not meet construction specs will not be allowed to be tested until brought into specification. If any construction violations are corrected during the competition block, circle F. If the device is not brought into specification during the competition block, leave items 3-22 blank and do NOT enter into the spreadsheet.)

 2. T F

Counterweight

Light

Heavy

Launch 1

Launch 2

Launch 1

Launch 2

5.b. Team places their device at a location they select in the launch area and the competitors are not within 75 cm of the launch area or in front of the front edge of the launch area during a launch. The competitors only touch the part of the triggering device that extends at least 75cm outside of the launch area.

T F T F T F T F

5.d. No part of the launch device extends outside of the launch area before or after a shot. Any part of the launching device extending beyond the launch area during the launching action returns to and remains in the launch area immediately after the launch without assistance of the competitors.

T F T F T F T F

DEVICE MEETS ALL COMPETITION RULES FOR THIS LAUNCH

 3. T F 8. T F 13. T F 18. T F

7.c. Target Distance – distance, in cm, from the center of the front of the launch area to the target center

 4. 9. 14. 19.

7.d. Accuracy Score – straight line distance, in cm, from the projectile initial impact location to the target. If the projectile hits the target on initial impact, put 0

 5. 10. 15. 20.

7.e. Bonus: Projectile hitting the target at first impact

 6. T F 11. T F 16. T F 21. T F

7.e. Bonus: Projectile makes contact with the inside bottom surface

 7. T F 12. T F 17. T F 22. T F

Chart Score

23. 7.f.i. Of one graphs/tables selected by the Event Sup, it includes data spanning ≥ 1 variable range in 4.a.ii. (up to 6 points)
24. 7.f.ii. Of one graphs/tables selected by the Event Sup, it includes at least 10 data points in each data series (up to 6 points)
25. 7.f.iii. Of one graphs/tables selected by the Event Sup, it is properly labeled (e.g. title, team name, units) (up to 6 points)
26. 7.f.iv. Points for each distinct graph/table turned in (3 points for each, up to 12 points total)
27. 7.f.v. Includes a labeled device picture or diagram (up to 5 points)
28. 7.f.vi. Includes at least 2 example calculations (up to 5 points)

 29. T F General Rule: The team is disqualified. (Notify the team and their coach as soon as possible.)