

Example Storm the Castle Calculation Sheet

Team: Example Science School

Members: John Doe, Jane Doe

Givens:

- The event supervisor has provided 1kg “light” and 2kg “heavy” counterweights
- The event supervisor has provided 32g and 52g projectiles

Calculations:

- The red line on the graph is the plot for the 1kg “light” counterweight
- Along the horizontal axis, the 32g projectile is the 4th mark
- Looking at the 4th entry on the red line, it is aligned with the 8.5m mark on the vertical axis
- The green line on the graph is the plot for the 2kg “heavy” counterweight
- Along the horizontal axis, the 52g projectile is the 9th mark
- The 9th mark on the horizontal axis is aligned with the 4th entry on the green line, which is aligned with the 14m mark on the vertical axis

Results:

- The target distance (TD) for the “light” counterweight is 8.5m
- The TD for the “heavy” counterweight is 14.0m

