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Optimal Conditions for Maximizing Projectile Range for Various Launch and Target Heights SEAN BRIM, LINDSAY TURNER, COLE WRIGHTSON, KEN TAYLOR, Lake Highlands High School — This paper characterizes the conditions that lead to maximum projectile range for a variety of launch and target heights. Both theory and data are utilized in the discussion. A CPO marble launcher provided a range of initial speeds and angles for study of the projectile motion. An interesting aside that will be briefly discussed was a study of the consistency of the launcher from shot to shot.

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