

Abstract Submitted
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Forces and the Potential Energy Function for a Bow-and-Arrow System KEN TAYLOR¹, BLAINE COUTANT², TATUM CROW³, AUSTIN JAMES⁴, Lake Highlands High School — The experiments described here consist of a series of investigations into the dynamics of a bow as it is bent (and released) under the influence of a stretched string. The bow is “student-friendly” and has no pulleys for facilitating stretch. The presentation will discuss the various approaches to characterizing the bow, the string, and its energy efficiency.

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