

Abstract Submitted  
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**Mechanics of the Battery in Baseball** AARON GOE, IGNACIO BIRRIEL, Morehead State University — The term “battery” in baseball refers to both the pitcher and catcher as a unit. They work together but have very specific and different defined roles. This study investigates the properties needed to throw out a runner trying to steal second base. The role of a pitcher is to disrupt the timing of the runner while also trying to get the hitter out. The catcher has many roles, one of which is to throw out runners stealing a base. A pitcher is typically trying to throw the ball with as much force as he can because he has as much time as he wants to deliver the ball to home plate. The catcher on the other hand does not have much time to throw out a base runner and therefore must have a quick throw to second. This study analyzes these different throwing mechanics and the timing required to get the baseball to second base. This will lead to a further investigation of understanding everything that goes on during a stolen base from the pitcher, to the catcher throwing to second, and the runner trying to steal the base.

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