

Bethany Hibbs
Does Height Affect Impact?

For this science fair project I researched this question: does height affect impact? My goals were 1) to find out if dropping the golf ball from various heights changes the size of the impact left in the foam and 2) to find out if the impact velocity and the speed of the golf ball changes when it is dropped from various heights. My hypothesis was that the higher up I dropped the golf ball, the deeper the indentations in the floral foam would be. For my procedure, I dropped a golf ball from five different heights onto a piece of floral foam. After dropping the golf ball five times at each of the five heights, I used a dial indicator to find the depth of the indentations in the foam. I also used several math equations to find the impact velocity and the speed of the golf ball at each of the five heights. The results were that the golf ball left a deeper impact the higher up it was dropped. Therefore, I proved my hypothesis to be correct.