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INCREASING THE HEIGHT OF BOUNCING BALL BY SPIN

Basketball is a very technical sport, one of the techniques used among athletes is spinning the ball to further influence the ball's path. This experiment will be studying the height of the ball when throwing with different spin, namely back spin, top spin, and no spin. Heights of the bouncing balls dropped was captured by an iPhone 12 camera and analyzed by an open video analysis software called Tracker. The position of the falling objects was tracked 120 times per second and was evaluated from a series of images. The velocity was averaged from the change in position during each interval. For the experiment, height will be measured before and after release to compare the ratio. Basketball with spin-launching has a higher height ratio than without spin-launching and launching with back spin has a higher height ratio than top spin. Launching the basketball with spin can increase the height ratio of the bouncing ball.

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