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**Lab 8: Oscillations**

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6. **Abstract**

The purpose of this lab is to analyze projectile motion under the influence of gravity and to measure gravitational acceleration. A launcher was used to launch a ball in different conditions by adjusting the angle and launching the ball in three different settings. A photogate was used to measure the gravitational acceleration by attaching different masses on the hanger and dropping it through the photogate. A value of 9.61 is attained for gravity which is closely accurate to the true value, which is 9.8

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