

Experiment 9.3 - Measuring Height with Time

Hypothesis: I think it's possible to measure a height with time regardless of the object, unless air resistance interferes.

$$16 \times (\text{time in the air})^2 = \text{Cliff height}$$

Observations: Two objects will fall at the same time even if they have a weight difference. This was seen between a human and a bowling ball. When we used the equation and the time it took for someone to hit the water after jumping off a cliff, the data proved true.

In conclusion: You can use the time to measure the height of something by using this simple equation regardless of the weight unless, of course as we've seen before, it's interfered by air resistance.