# The golf ball

## Background

All that is released is pulled towards the center of the earth, and increases its speed linearly. Gravitational constant g is in a physical sense acceleration.

## Task

Determine the acceleration of a golf ball when you drop it from ca 2m height.

## Equipment

* Golf ball
* Stroboscope
* Camera with adjustable shutter speed
* Tripod (important to have the camera steady)

## Instructions

When you drop the golf ball, you take a photo in the light of the stroboscope. Use the photo to determine the acceleration of the golf ball. Recommended Geogebra for measurements and Excel for the calculations and graphs.