**Arbeitsblatt – Schiefer Wurf**

**Aufgaben**

1. Analysiert den schiefen Wurf der Kugel: <https://www.youtube.com/watch?v=47Boc26Pzbo>

**a)** Tragt mindestens 10 Wertepaare für y und t in die folgende Tabelle ein:

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| y in m |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| t in s |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**b)** Zeichnet mithilfe der Werte ein y-t-Diagramm. Verbindet die einzelnen Punkte (aus anschaulichen Gründen) **nicht** zu einer Flugbahn.

**c)** Zeichnet zu jedem Punkt im Diagramm den Geschwindigkeitsvektor sowohl in x- als auch in y-Richtung ein. Wählt für die Vektoren sinnvolle Länge, sodass sie skizzenhaft die Geschwindigkeiten darstellen. Beachtet, dass sich die Flugbahn aus einer **gleichförmigen Bewegung in x-Richtung** und einer **gleichmäßig beschleunigten Bewegung in y-Richtung** zusammensetzt.

**Höhen-Zeit-Diagramm des schiefen Wurfes**

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