**Distance of a Dart shot Straight up Lab**

**Problems:**

1. **How can you measure the time it takes the dart to travel from the top of it’s arc until it hits the floor?**
2. **How can you use that time to calculate Average velocity, initial Velocity and Distance of the height (using: D = ½ gt2)?**

**Material: Nerf Dart gun, Stop watch.**

**Data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **D** | **T** | **T/2** | **AV** | **IV** | **g** |
| **Dart** |  |  |  |  |  |  |

**Show work for calculations.**

**Conclusion: ?’s from notes.**