Example Data Table – Ball Launch Trials (5 Trials)

This sample data table can be used to guide students in how to structure their observations. It includes partial data for five example trials of horizontally launched balls. Students are expected to calculate or measure the missing values during the experiment.

Trial	Initial Velocity v_0 (m/s)	Drop Height h (m)	Fall Time t (s)	Range R (m)
1	4	1.2		
2	4	2		
3	6	2		
4	5	1.5		
5	3.5	1.8		

→ The missing values (fall time and range) will be determined by students through hands-on experimentation or video analysis.