

2. *Crater diameter as a function of impact drop height*

a. Use Physics I concepts to predict how D depends on drop h :

b. Choose one of your medium mass beads. You have already dropped it twice from 1 m; drop it twice from each of 4 more heights, at least one of which is higher and at least one of which is lower than one meter. Please don't drop it from more than ~ 1.5 m—sand splashes. Record your data.

bead description, mass	drop height	diameter 1	diameter 2	average D

3. *Data analysis and interpretation*

Use Excel or its equivalent to plot D vs. h and D vs. m and add line fits (try both linear and power law fits). Do the properties of the line fits agree with your predictions? Comment on why the data and fits may not exactly match your predictions.