

Crater Maker Predictions

<u>Height & Ball size</u>	<u>Prediction</u>	<u>Experimental Result</u>
70 cm small ball		
140 cm small ball		
210 cm small ball		
70 cm medium ball		
140 cm medium ball		
210 cm medium ball		
70 cm large ball		
140 cm large ball		
210 cm large ball		

KEY

Small marble mass (m) = 0.005kg

Medium marble mass (m) = 0.05 kg

Large marble mass (m) = 0.5kg

Gravity (g) = 9.81 meters per second squared

Height (h) = 70 cm, 140 cm, and 210 cm

Height & Ball size	Potential Energy=mgh
70 cm small ball	
140 cm small ball	
210 cm small ball	
70 cm medium ball	
140 cm medium ball	
210 cm medium ball	
70 cm large ball	
140 cm large ball	
210 cm large ball	