

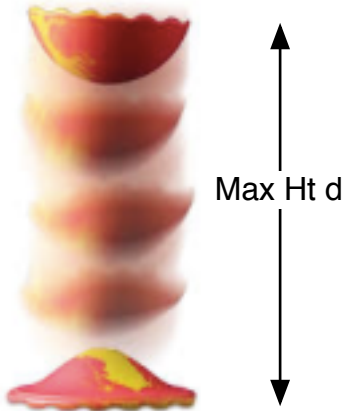
# Launch Velocity Lab

## The Timeless Equation

Name: \_\_\_\_\_

$$(v_f)^2 = (v_i)^2 - 20d$$

$$(v_f = 0 \text{ at the top})$$



1a. Measure the maximum height  $d$  of the popper in cm.

$$d = \underline{\hspace{2cm}} \text{ cm}$$

1b. Convert to meters: move the decimal place two times to the left. (19 cm would be 0.19 m)

$$d = \underline{\hspace{2cm}} \text{ m}$$

1c. Use the timeless equation to calculate the launch velocity.